

PRICING GUIDE



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Rotary - Standard

Rotaries are a common point level indicator used for high-, mid- and low-level material detection in bins, tanks, and silos. Rotaries are wired to a horn, alarm or light panel to send an alert when material reaches the desired level. BinMaster's standard and fail-safe rotaries can be fit with a wide assortment of paddles and mounting plates, plus a compact mini-rotary is offered for constrained spaces. Extended rotaries for top mounting applications for high level detection, extensions for side mounting through thick bin walls, and stainless steel process connections for corrosive material ensure BinMaster has the right rotary for challenging applications.

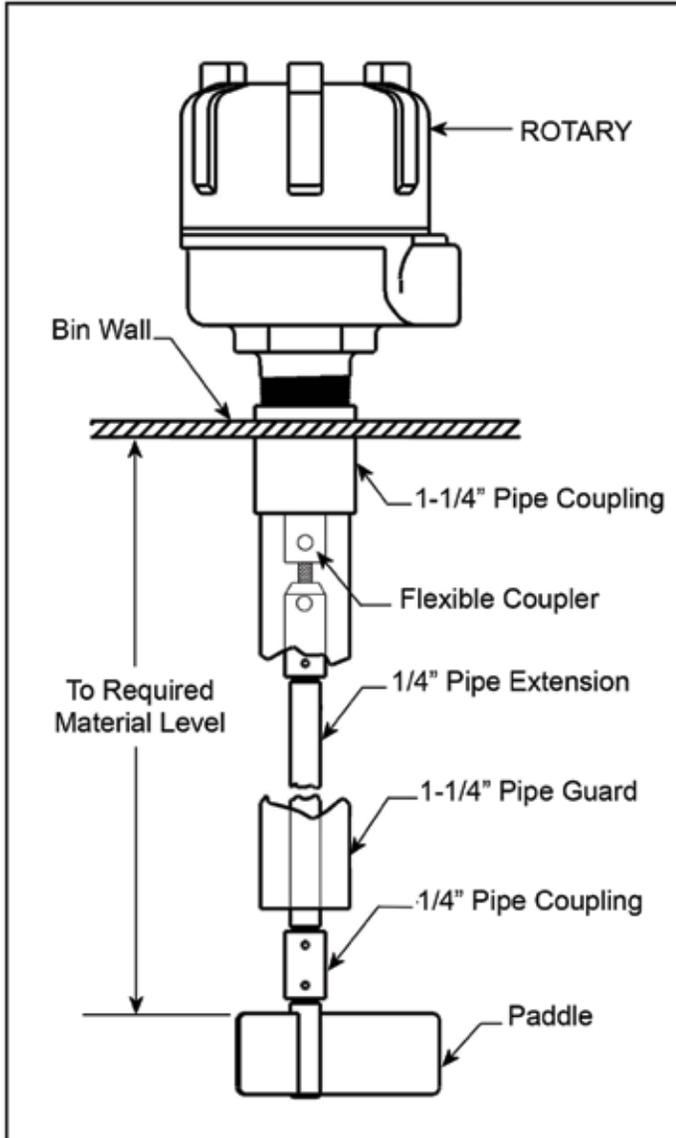
Description	Price	Part No.
BMRX POWER PACS		
BMRX - 115 VAC - Rotary level indicator power pac featuring a triple-thread, screw-off cover, dual conduit entries, DPDT relay contacts, selectable fail-safe protection, FDA recognized powder coat finish, hazardous location approval, and C/US listed for Class I, Groups C & D and Class II, Groups E, F & G.	\$233.00	Standard: 730-0504 ATEX: 730-0504-EX Process Connection: 730-0569
BMRX - 230 VAC - Rotary level indicator power pac featuring a triple-thread, screw-off cover, dual conduit entries, DPDT relay contacts, selectable fail-safe protection, FDA recognized powder coat finish, hazardous location approval, and C/US listed for Class I, Groups C & D and Class II, Groups E, F & G.	\$233.00	Standard: 730-0503 ATEX: 730-0503-EX Process Connection: 730-0570
BMRX - 24 VAC - Rotary level indicator 24 VAC with dual conduit entries, DPDT relay contacts, selectable fail-safe protection, and FDA recognized powder coat finish, hazardous location approval, and C/US listed for Class I, Groups C & D and Class II, Groups E, F & G.	\$249.00	Standard: 730-0505 ATEX: 730-0505-EX
BMRX - 24 VDC - Rotary level indicator 12 to 24 VDC with dual conduit entries, DPDT relay contacts, selectable fail-safe protection, and FDA recognized powder coat finish, hazardous location approval, and C/US listed for Class I, Groups C & D and Class II, Groups E, F & G.	\$283.00	Standard: 730-0661 ATEX: 730-0661-EX Process Connection: 730-0664
MAXIMA+ POWER PACS		
MAXIMA+ 24/115/230 VAC - Fail-safe rotary level indicator power pac with hazardous location approval, C/US listed for Class II, Groups E, F, & G and a visual LED status light monitoring paddle rotation, paddle covered, and fault conditions. Features a triple-thread, screw-off cover, dual conduit entries, DPDT relay contacts, fail-safe protection, SPDT normal and fault relay contact and FDA recognized powder coat finish.	\$380.00	Standard: 730-0528 ATEX: 730-0528-EX Process Connection: 730-0574
MAXIMA+ 12-24VDC - Fail-safe rotary level indicator power pac with hazardous location approval, C/US listed for Class II, Groups E, F, & G and a visual LED status light monitoring paddle rotation, paddle covered, and fault conditions. Features a triple-thread, screw-off cover, dual conduit entries, DPDT relay contacts, fail-safe protection, SPDT normal and fault relay contact and FDA recognized powder coat finish.	\$380.00	Standard: 730-0662 ATEX: 730-0662-EX Process Connection: 730-0665
FITTINGS		
GRPC-1 - 1-1/4" stainless steel process connection fitting & o-ring for 1" coupled pipe guards	\$121.00	416-0507
GRPC-2 - 1-1/2" stainless steel process connection fitting & o-ring for 1" coupled pipe guards	\$125.00	416-0508
GRPC-3 - 1-1/4" Aluminum process connection fitting & o-ring for 1" coupled pipe guards	\$94.00	416-0505
GRPC-4 - 1-1/2" Aluminum process connection fitting & o-ring for 1" coupled pipe guards	\$94.00	416-0506
SSPC-1 - 1-1/4" NPT stainless steel process connection with bearing and seal	\$142.00	416-0547
SSPC-2 - 1-1/2" NPT stainless steel process connection with bearing and seal	\$142.00	416-0548
SSPC-3 - 1-1/4" NPT stainless steel process connection with bearing and seal, includes teflon bearing and grease packed bearings to provide additional corrosion resistance	\$186.00	416-0736

Description	Price	Part No.
COUPLINGS		
GRSS-1 - Solid shaft, stainless steel side mount coupler	\$19.00	299-0004
GRFC-1 - Flexible stainless steel top mount coupler	\$45.00	416-0155
GRFS-1 - Molded neoprene, flexible shaft, stainless steel top mount coupler	\$39.00	416-0283
BSA - Bindicator stainless steel shaft adapter, to couple BinMaster rotary PowerPac to a Bindicator shaft coupler or Bindicator Paddle.	\$19.00	416-0294
MOUNTING PLATES		
GRMP-1 - 0° Mild carbon steel half coupling 1.25" with black neoprene gasket	\$32.00	730-0020
GRMP-2 - GRMP-2 - 0° Mild carbon steel full coupling 1.25", powder coated with black neoprene gasket	\$35.00	730-0022
GRMP-3 - 0° stainless steel half coupling 1.25" mounting plate with black neoprene gasket	\$70.00	730-0021
GRMP-4 - 0° stainless steel full coupling 1.25" with black neoprene gasket	\$89.00	730-0023
GRMP-9 - 10° Mild carbon steel full coupling 1.25", powder coated with black neoprene gasket	\$47.00	730-0489
GRMP-13 - 30° Mild carbon steel full coupling 1.25", powder coated with black neoprene gasket	\$47.00	730-0508
GRMP-14 - 0° Mild carbon steel half coupling 1.25" with white silicone gasket	\$70.00	730-0567
GRMP-15 - 0° stainless steel full coupling 1.25" with white silicone gasket	\$89.00	730-0568
GRMP-16 - 20° Mild carbon steel full coupling 1.25", powder coated with black neoprene gasket	\$80.00	730-0663
PADDLES		
GRP-1 - Triple-bladed, stainless steel paddle for light weight materials, paddle turns in a 7" diameter, blades are 2" wide	\$32.00	416-0161
GRP-2 - Triple-bladed, stainless steel paddle for average weight materials, paddle turns in a 5" diameter, blades are 1-1/2" wide	\$28.00	416-0152
GRP-3 - Single-blade, stainless steel paddle for average to heavy weight materials, paddle is 2-1/2" long and turns in a 5" diameter, insertable paddle blade is 1/8" thick and 1" wide	\$30.00	416-0153
GRP-11 - High strength nylon paddle for lightweight materials, triple-bladed paddle turns in a 7" diameter, blades are 2" wide	\$15.00	299-0009
GRP-12 - High strength nylon paddle for average weight materials, triple-bladed paddle turns in a 5" diameter, blades are 1.5" wide	\$15.00	299-0010
GRP-22 - Triple-bladed, stainless steel paddle for average to heavy weight materials, turns in a 5" diameter, paddle blades are 1/8" thick and 1" wide	\$44.00	416-0160
GRP-23 - Single bayonet blade, stainless steel paddle for high level control in light and medium materials and low level control in light materials, insertable paddle blade is 1/8" thick and 1" wide	\$41.00	416-0154
GRP-24 - 12" Belt paddle for high level control in heavy materials with large particle size	\$125.00	416-0259
GRP-25 - Triple-bladed, stainless steel paddle for very light materials, paddle turns in a 5" diameter, blades are 5" tall and 1/16" thick	\$48.00	416-0261
GRP-26 - Triple-bladed, stainless steel paddle for light weight materials, paddle turns in a 7" diameter, blades are 2" wide, direct connect paddle that eliminates the need for GRSS-1 coupler	\$33.00	416-0265
GRP-27 - Single bayonet blade, stainless steel paddle for high level control in light and medium materials and low level control in light materials, insertable paddle blade is 1/8" thick and 1" wide, direct connect paddle that eliminates the need for GRSS-1 coupler	\$40.00	416-0266
GRP-28 - Triple-bladed, stainless steel paddle for extremely light materials, paddle turns in a 7" diameter, blades are 5" tall and 1/16" thick	\$54.00	416-0336
GRP-29 - Triple-bladed, stainless steel paddle for very light materials, paddle turns in a 5" diameter, blades are 5" tall and 1/16" thick, direct connect paddle that eliminates the need for GRSS-1 coupler	\$56.00	416-0430
GRP-30 - Triple-bladed, stainless steel paddle for average weight materials, paddle turns in a 5" diameter, blades are 1-1/2" wide, direct connect paddle that eliminates the need for GRSS-1 coupler	\$29.00	416-0100

Description	Price	Part No.
GRP-31 - Single-bladed, stainless steel paddle for medium to heavy materials, paddle turns in a 6.5" diameter, blade is 3.25" long, 1.63" wide and 1/8" thick	\$29.00	416-0487
GRP-34 - Folding, single-bladed, insertable paddle for medium materials will fold to insert through a 1-1/4" or 1-1/2" process connection, turns in a 7.5" diameter, blades are 1-1/2" wide, direct connect paddle that eliminates the need for GRSS-1 coupler	\$54.00	416-0513
GRP-35 - Folding, double-bladed, insertable paddle for medium materials will fold to insert through a 1-1/4" or 1-1/2" process connection, turns in a 7.5" diameter, blades are 1-1/2" wide, direct connect paddle that eliminates the need for GRSS-1 coupler	\$58.00	416-0514
GRP-36 - Threaded, folding, single-bladed, insertable paddle for medium materials will fold to insert through a 1-1/4" or 1-1/2" process connection, turns in a 7.5" diameter, blades are 1-1/2" wide, for use with standard threaded coupler	\$58.00	416-0556
GRP-37 - Threaded, folding, double-bladed, insertable paddle for medium materials will fold to insert through a 1-1/4" or 1-1/2" process connection, turns in a 7.5" diameter, blades are 1-1/2" wide, for use with standard threaded coupler	\$62.00	416-0557
GALVANIZED SHAFT EXTENSIONS		
6" x 1/4"Ø Galvanized shaft extension, includes paddle coupling	\$40.00	299-0407
12" x 1/4"Ø Galvanized shaft extension, includes paddle coupling	\$44.00	299-0408
15" x 1/4"Ø Galvanized shaft extension, includes paddle coupling	\$45.00	299-0907
18" x 1/4"Ø Galvanized shaft extension, includes paddle coupling	\$45.00	299-0409
24" x 1/4"Ø Galvanized shaft extension, includes paddle coupling	\$48.00	299-0410
30" x 1/4"Ø Galvanized shaft extension, includes paddle coupling	\$50.00	299-0682
36" x 1/4"Ø Galvanized shaft extension, includes paddle coupling	\$56.00	299-0411
48" x 1/4"Ø Galvanized shaft extension, includes paddle coupling	\$61.00	299-0412
60" x 1/4"Ø Galvanized shaft extension, includes paddle coupling	\$70.00	299-0609
63" x 1/4"Ø Galvanized shaft extension, includes paddle coupling	\$77.00	299-0610
72" x 1/4"Ø Galvanized shaft extension, includes paddle coupling	\$88.00	299-0611
84" x 1/4"Ø Galvanized shaft extension, includes paddle coupling	\$100.00	299-0612
XX x 1/4"Ø Custom Galvanized shaft extension, includes paddle coupling. \$25 minimum on custom shaft lengths.	\$1.30/in.	999-1000-XX
STAINLESS STEEL SHAFT EXTENSIONS		
6" x 1/4"Ø stainless steel shaft extension, includes paddle coupling	\$41.00	299-0413
12" x 1/4"Ø stainless steel shaft extension, includes paddle coupling	\$45.00	299-0414
15" x 1/4"Ø stainless steel shaft extension, includes paddle coupling	\$48.00	299-0908
18" x 1/4"Ø stainless steel shaft extension, includes paddle coupling	\$49.00	299-0415
24" x 1/4"Ø stainless steel shaft extension, includes paddle coupling	\$51.00	299-0416
30" x 1/4"Ø stainless steel shaft extension, includes paddle coupling	\$57.00	299-0735
36" x 1/4"Ø stainless steel shaft extension, includes paddle coupling	\$64.00	299-0417
48" x 1/4"Ø stainless steel shaft extension, includes paddle coupling	\$70.00	299-0418
60" x 1/4"Ø stainless steel shaft extension, includes paddle coupling	\$83.00	299-0634
72" x 1/4"Ø stainless steel shaft extension, includes paddle coupling	\$100.00	299-0636
84" x 1/4"Ø stainless steel shaft extension, includes paddle coupling	\$113.00	299-0637
XX x 1/4"Ø Custom stainless steel shaft extension, includes paddle coupling. \$25 minimum on custom shaft lengths.	\$1.90/in.	999-1001-XX
1-1/4" STAINLESS STEEL SHAFT GUARDS		
6" x 1-1/4" Diameter stainless steel shaft guard	\$76.00	299-0912
12" x 1-1/4" Diameter stainless steel shaft guard	\$85.00	299-0913
15" x 1-1/4" Diameter stainless steel shaft guard	\$87.00	299-0914

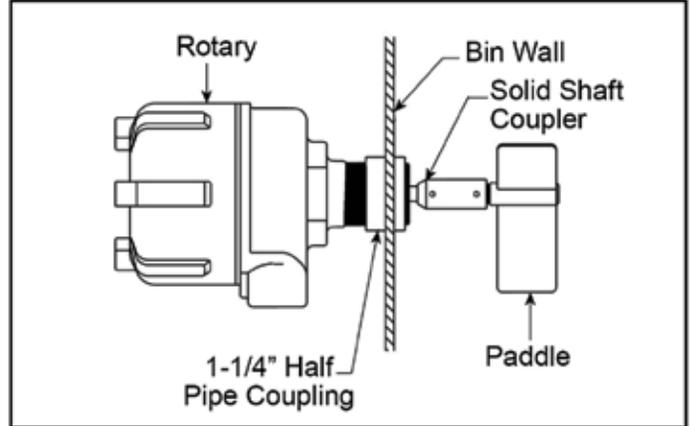
Description	Price	Part No.
18" x 1-1/4" Diameter stainless steel shaft guard	\$89.00	299-0737
24" x 1-1/4" Diameter stainless steel shaft guard	\$120.00	299-0422
30" x 1-1/4" Diameter stainless steel shaft guard	\$150.00	299-0738
36" x 1-1/4" Diameter stainless steel shaft guard	\$167.00	299-0423
48" x 1-1/4" Diameter stainless steel shaft guard	\$236.00	299-0424
60" x 1-1/4" Diameter stainless steel shaft guard	\$295.00	299-0638
63" x 1-1/4" Diameter stainless steel shaft guard	\$309.00	299-0639
72" x 1-1/4" Diameter stainless steel shaft guard	\$329.00	299-0640
84" x 1-1/4" Diameter stainless steel shaft guard	\$383.00	299-0641
XX x 1-1/4" Custom diameter stainless steel shaft guard. \$25 minimum on custom guard lengths.	\$4.93/in.	999-1003-XX
1-1/4" GALVANIZED SHAFT GUARDS		
6" x 1-1/4" Diameter Galvanized shaft guard	\$25.00	299-0909
12" x 1-1/4" Diameter Galvanized shaft guard	\$29.00	299-0910
15" x 1-1/4" Diameter Galvanized shaft guard	\$31.00	299-0911
18" x 1-1/4" Diameter Galvanized shaft guard	\$33.00	299-0681
24" x 1-1/4" Diameter Galvanized shaft guard	\$46.00	299-0419
30" x 1-1/4" Diameter Galvanized shaft guard	\$56.00	299-0736
36" x 1-1/4" Diameter Galvanized shaft guard	\$66.00	299-0420
48" x 1-1/4" Diameter Galvanized shaft guard	\$90.00	299-0421
60" x 1-1/4" Diameter Galvanized shaft guard	\$111.00	299-0613
63" x 1-1/4" Diameter Galvanized shaft guard	\$117.00	299-0614
72" x 1-1/4" Diameter Galvanized shaft guard	\$133.00	299-0615
84" x 1-1/4" Diameter Galvanized shaft guard	\$156.00	299-0616
XX x 1-1/4" Custom diameter Galvanized shaft guard. \$25 minimum on custom guard lengths.	\$1.90/in.	999-1002-XX
1" GALVANIZED SHAFT GUARDS		
4" x 1" Diameter Galvanized shaft guard	\$22.00	299-0915
6" x 1" Diameter Galvanized shaft guard	\$24.00	299-0916
8" x 1" Diameter Galvanized shaft guard	\$25.00	299-0917
10" x 1" Diameter Galvanized shaft guard	\$27.00	299-0918
12" x 1" Diameter Galvanized shaft guard	\$28.00	299-0919
15" x 1" Diameter Galvanized shaft guard	\$30.00	299-0920
18" x 1" Diameter Galvanized shaft guard	\$32.00	299-0921
24" x 1" Diameter Galvanized shaft guard	\$44.00	299-0922
30" x 1" Diameter Galvanized shaft guard	\$54.00	299-0923
36" x 1" Diameter Galvanized shaft guard	\$64.00	299-0924
48" x 1" Diameter Galvanized shaft guard	\$87.00	299-0925
60" x 1" Diameter Galvanized shaft guard	\$107.00	299-0926
72" x 1" Diameter Galvanized shaft guard	\$128.00	299-0927
XX x 1" Custom Diameter Galvanized shaft guard. \$25 minimum on custom guard lengths.	\$1.55/in.	299-0928-XX
1" STAINLESS STEEL SHAFT GUARDS		
6" x 1" Diameter stainless steel shaft guard	\$37.00	299-0760

Description	Price	Part No.
12" x 1" Diameter stainless steel shaft guard	\$42.00	299-0761
15" x 1" Diameter stainless steel shaft guard	\$50.00	299-0762
18" x 1" Diameter stainless steel shaft guard	\$61.00	299-0763
24" x 1" Diameter stainless steel shaft guard	\$79.00	299-0764
30" x 1" Diameter stainless steel shaft guard	\$99.00	299-0765
36" x 1" Diameter stainless steel shaft guard	\$120.00	299-0766
48" x 1" Diameter stainless steel shaft guard	\$157.00	299-0767
60" x 1" Diameter stainless steel shaft guard	\$203.00	299-0768
72" x 1" Diameter stainless steel shaft guard	\$235.00	299-0769
XX x 1" Custom Diameter stainless steel shaft guard. \$25 minimum on custom guard lengths	\$3.53/in.	299-0929-XX
ACCESSORIES		
Rotary fitting to allow 1" guard pipe extensions to be adjusted for variable insertion lengths. The fitting threads into BinMaster 1 1/4" mounting plate and has set screws to allow variable height adjustments.	\$84.00	416-0641
1-1/4" Galvanized NPT female coupler to attach guard pipes together	\$12.00	201-9010
1-1/4" stainless steel NPT female coupler to attach guard pipes together	\$57.00	201-9033
1" Aluminum NPT female coupler to attach guard pipes together	\$42.00	201-9034
1" stainless steel NPT female coupler to attach guard pipes together	\$50.00	201-9035
1/4" Galvanized NPT female coupler to attach paddle to shaft extensions or shaft extensions together	\$15.00	201-9028
1/4" SS NPT female coupler to attach paddle to shaft extensions or shaft extensions together	\$12.00	201-9029
1/4" Aluminum NPT female coupler to attach paddle to shaft extensions or shaft extensions together	\$11.00	201-9036



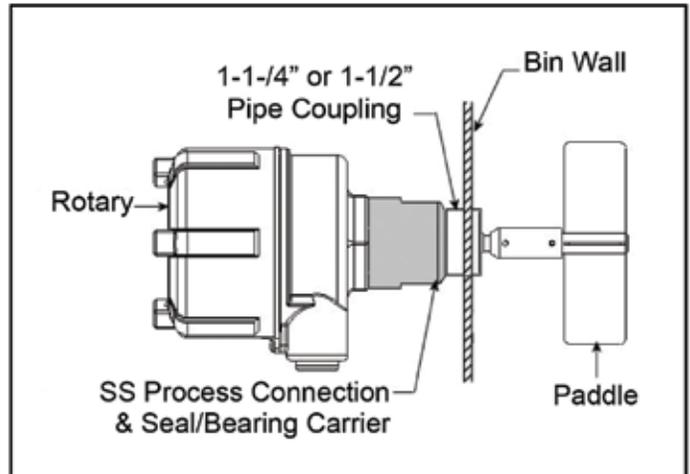
Standard Extended Vertical Mounted Rotary

Standard mounted rotary for straight vertical installations. Angled mounting plates are available for sloped roof installations. The pipe guards and extensions are available in both galvanized or stainless steel.



Standard Horizontal or Vertical Mounted Rotary

Standard mounted rotary for vertical, horizontal and angled installations



Standard Horizontal or Vertical Mounted Rotary with Optional SS Process Connection Bearing Carrier

The optional stainless steel process connection and seal/bearing carrier is used in corrosive applications. All parts in contact with the materials in the bin are stainless steel.

Paddle Assemblies

GRP-1
Stainless steel for light materials, 3-vane paddle, turns in 7" diameter.

GRP-2
Stainless steel for medium materials, 3-vane paddle, turns in 5" diameter.

GRP-3
Stainless steel for heavy materials, single vane, turns in 5" diameter, insertable through a 1-1/4" or 1-1/2" NPT opening.

GRP-11
Economical nylon paddle for light materials, 3-vane paddle, turns in 7" diameter.

GRP-12
Economical nylon paddle for medium materials 3-vane paddle, turns in 5" diameter.

GRP-22
Stainless steel for heavy materials, 3-vane paddle, turns in 5" diameter.

GRP-23
Stainless steel single bayonet style paddle, turns in 5" diameter. Insertable through a 1-1/4" or 1-1/2" NPT opening.

GRP-24
12" belt paddle for use in heavy material with large particulate size such as rock, coal or aggregate.

GRP-25
Stainless steel for very light materials, 3-vane, paddles are 5" tall and 1/16" thick to increase resistance in light materials.

GRP-26
Direct connect version of GRP-1 for light materials, 3-vane, stainless steel, 7" diameter with blades that are 2" wide (side mounting only).

GRP-27
Direct connect version of GRP-23 paddle for medium materials. Insertable, single bayonet style, stainless steel, blade is 1/8" thick and 1" wide (side mounting only).

GRP-28
Stainless steel for extremely light materials, 3-vane, 7" diameter for added resistance, blades are 5" tall and 1/16" thick to increase resistance in light materials.

GRP-29
Direct connect version of GRP-25, 3-vane, stainless steel paddle for very light materials, paddles are 5" tall and 1/16" thick to increase resistance in light materials (side mounting only).

GRP-30
Direct connect version of GRP-2 for medium materials, 3-vane paddle, stainless steel, turns in 5" diameter, (side mounting only).

GRP-31
Stainless steel, single-bladed, 3-1/4" long for heavy materials, turns in 6-1/2" diameter, blade is 1/8" thick and 1.63" wide.

GRP-34
Stainless steel, single-bladed, direct connect, insertable paddle, folds to insert through a 1-1/4" or 1-1/2" NPT opening, turns in 7-1/2" diameter. Paddle blades are 1-1/2" wide.

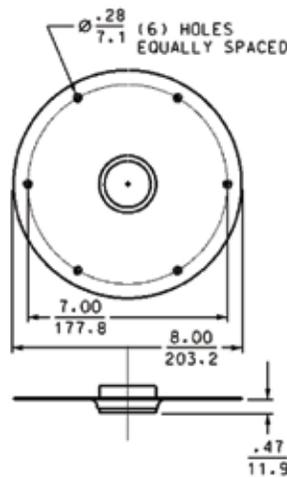
GRP-35
Stainless steel, double-bladed, direct connect, insertable paddle, folds to insert through a 1-1/4" or 1-1/2" NPT opening, turns in 7-1/2" diameter, paddles blades are 1-1/2" wide.

GRP-36
Stainless steel, single-bladed, threaded, insertable paddle, folds to insert through a 1-1/4" or 1-1/2" NPT opening, turns in 7-1/2" diameter, paddles blades are 1-1/2" wide.

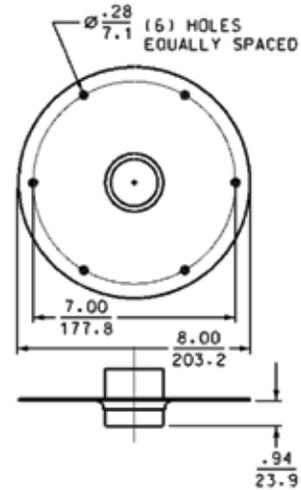
GRP-37
Stainless steel, double-bladed, threaded, insertable paddle, folds to insert through a 1-1/4" or 1-1/2" NPT opening, turns in 7-1/2" diameter, paddles blades are 1-1/2" wide.

Mounting Plates

Mounting plates allow the rotary units to be mounted from the outside of a vessel on a curved or flat surface. A half coupling mounting plate is used in side mount installations. A full coupling mounting plate is for use in top mount installations where a shaft extension and shaft guards are required. Both mounting plates are available in powder coated carbon steel and stainless steel for use in corrosive environments.



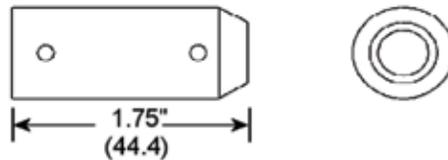
Half Coupling Mounting Plate



Full Coupling Mounting Plate

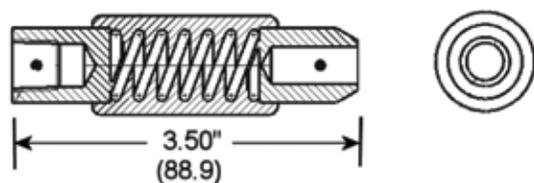
Solid Shaft Coupler

A short solid shaft coupler should be used in side mount installations.



Flexible Shaft Coupler

The flexible coupler should be used in top mount installations to absorb side loads and protect the internal workings of the unit.

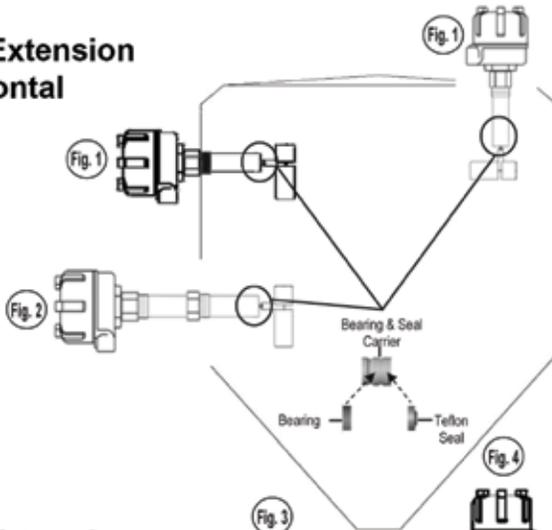




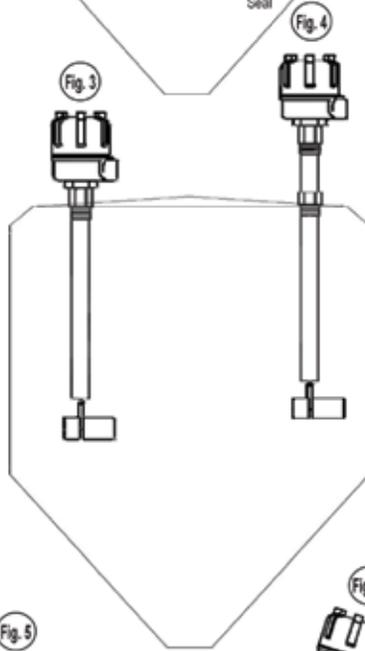
Vertical
Mounted
Flexible
Hanging
Rotary
Extension



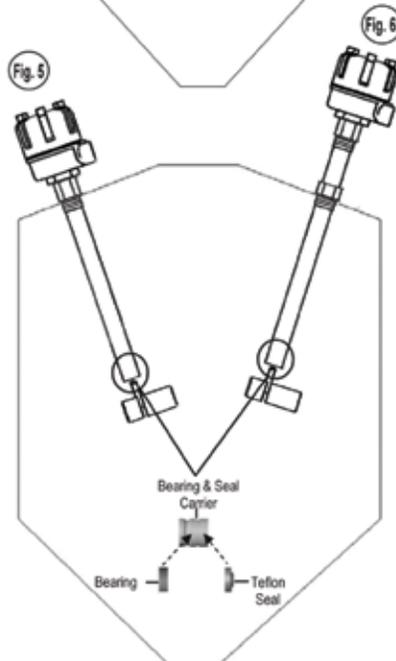
Pipe Extension Horizontal



Pipe Extension Vertical



Pipe Extension Vertical or Angled

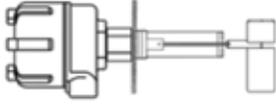


This extension was designed for horizontal applications that need the paddle extended from 6 to 12 inches from the vessel sidewall without compromising any strength. A bearing and shaft seal are at the shaft guard end to center the shaft extension and prevent material from getting up into shaft guard. This unit can also be installed in angled hoppers or vertically from the top. A single vane folding insertable paddle is recommended. This paddle will collapse to fit through a standard 1-1/4" or 1-1/2" process connection from outside the vessel, eliminating the need to cut large holes or go into the vessel. A heat tube is available for high temperature applications.

This extension was designed to extend vertically with a 1" shaft guard and 1/4" shaft extension. The shaft guard is coupled directly into the process connection so it can be mounted without having to use a full coupling mounting plate. A double vane folding insertable paddle is recommended. This paddle will collapse to fit through a standard 1-1/4" or 1-1/2" process connection from outside the vessel, eliminating the need to cut large holes or gain access into the vessel. It also allows you to simply drop in a rotary where another kind of technology may not be working well in your application. A heat tube is available for high temperature applications.

This extension was designed for angled vertical applications. A bearing and shaft seal are at the shaft guard end to center the shaft extension and prevent material from getting up into shaft guard. The shaft guard is coupled directly into the process connection so it can be mounted without having to use a full coupling mounting plate. A double or single vane folding insertable paddle is recommended. This paddle will collapse to fit through a standard 1-1/4" or 1-1/2" process connection from outside the vessel, eliminating the need to cut large holes or gain access into the vessel. A heat tube is available for high temperature applications.

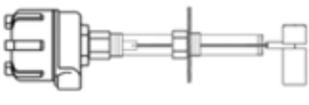
Fig. 1



Extended Horizontal or Vertical Mounted Rotary *with* Seal and Bearing at Tube End

Extended rotary with 1" protection tube for vertical, horizontal and angled installations. Comes in 6", 8", 10", or 12" fixed insertion lengths.

Fig. 2



Extended Horizontal or Vertical Mounted Rotary *with* Seal and Bearing at Tube End and Heat Tube

Extended rotary with 1" protection tube and heat tube for high temp. vertical, horizontal and angled installations. Heat tube comes in 8" or 12" lengths. Protection tube comes in 6", 8", 10" or 12" fixed insertion lengths.

Fig. 3



Coupled Extended Vertical Mounted Rotary *without* Seal and Bearing at Tube End

Extended rotary with 1" shaft guard for straight vertical installations. The shaft guard is coupled directly into the process connection so it can be inserted through a 1-1/4" or 1-1/2" fitting.

Fig. 4



Coupled Extended Vertical Mounted Rotary *without* Seal and Bearing at Tube End and Heat Tube

Extended rotary with 1" shaft guard and heat tube for high temp. Straight vertical installations. The shaft guard is coupled directly into the process connection so it can be inserted through a 1-1/4" or 1-1/2" fitting.

Fig. 5



Coupled Extended Vertical Mounted Rotary *with* Seal and Bearing at Tube End

Extended rotary with 1" shaft guard for straight vertical and angled installations. The shaft guard is coupled directly into the process connection so it can be inserted through a 1-1/4" or 1-1/2" fitting.

Fig. 6

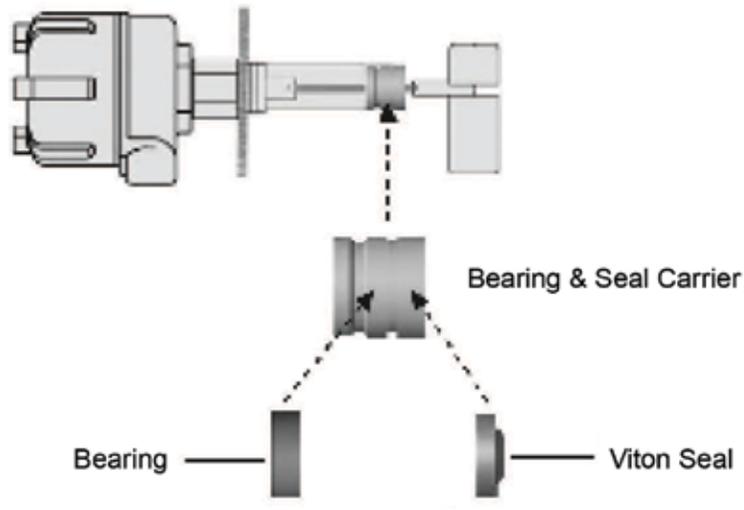


Coupled Extended Vertical Mounted Rotary *with* Seal and Bearing at Tube End and Heat Tube

Extended rotary with 1" protection tube and heat tube for high temp. Straight vertical and angled installations. The shaft guard is coupled directly into the process connection so it can be inserted through a 1-1/4" or 1-1/2" fitting.

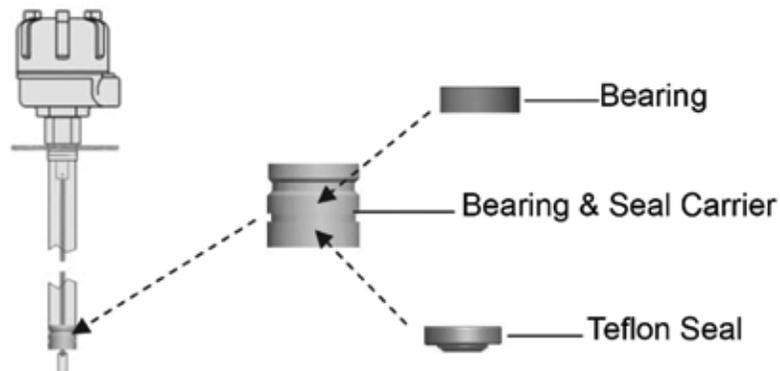
Bearing and Viton Seal at Tube End

The bearing and Viton seal are used to keep the shaft centered and turning without restraint when mounting from the top of a vessel at an angle, or horizontally. It also seals the shaft guard so no material can be forced up into the pipe. The bearing and Viton seal can operate in temperatures up to 500°F (260°C).

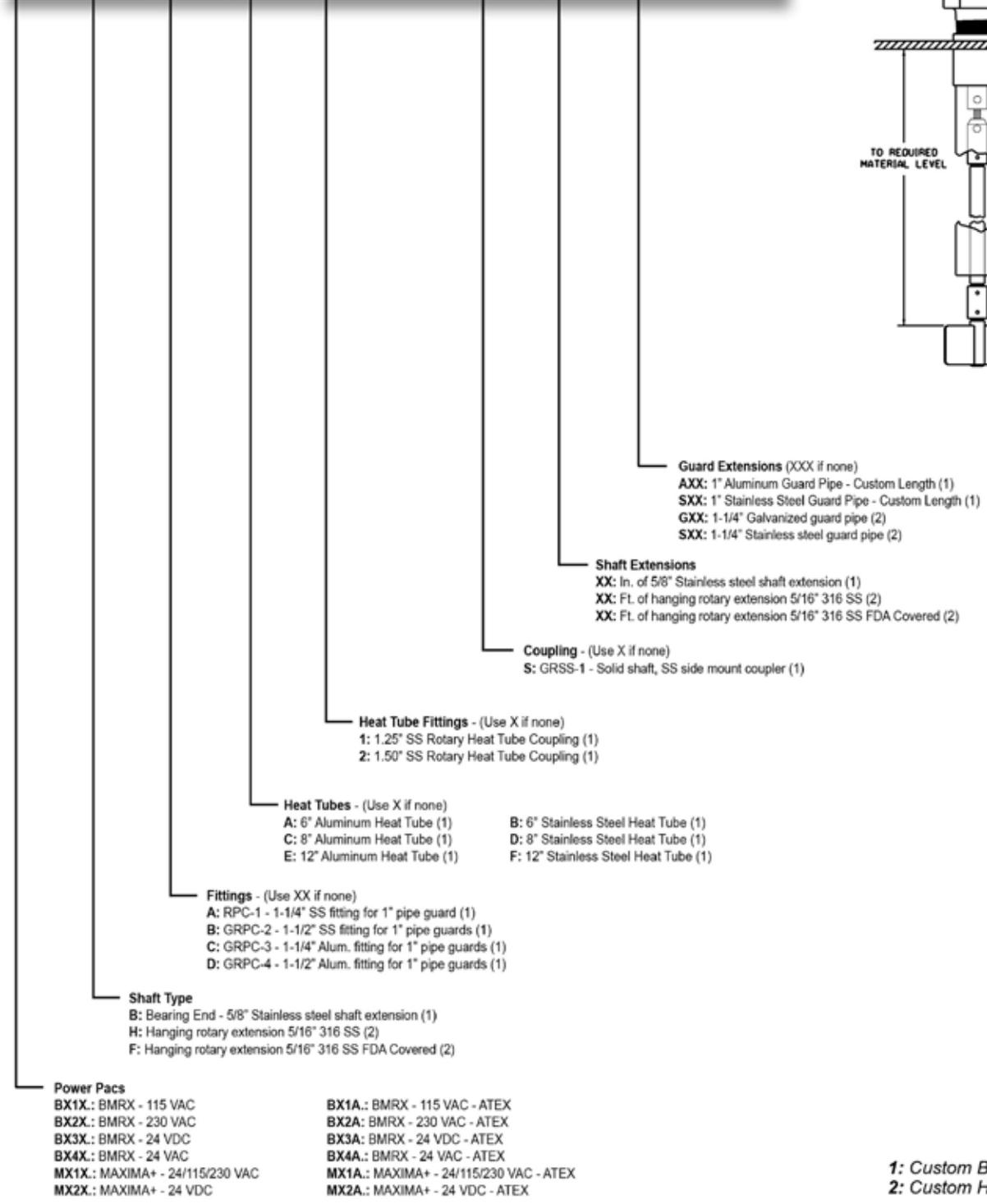
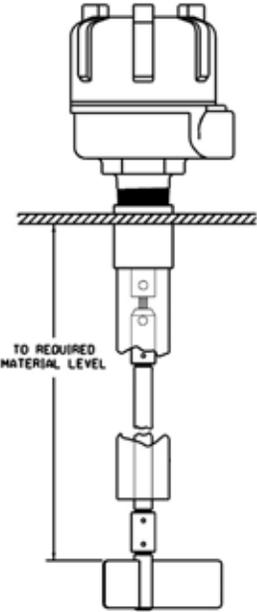


Bearing and Teflon Seal at Tube End

The bearing and Teflon seal are used to keep the shaft centered and turning without restraint when mounting from the top of a vessel at an angle, or horizontally. It also seals the shaft guard so no material can be forced up into the pipe. The bearing and Teflon seal can operate in temperatures up to 500°F (260°C).



Mark X if none									
Sample									
BX1X.	B	A	A	1	X	S	06	S06	XXX



Description	Price	CODE
MOUNTING PLATES & PADDLES		
Refer to Rotary - Standard section for paddle and mounting plate part numbers and prices		
POWER PACS		
NOTE: MAXIMA+ Power Pacs cannot be used with flexible hanging cable.		
BMRX - 115 VAC - Rotary level indicator power pac featuring a triple-thread, screw-off cover, dual conduit entries, DPDT relay contacts, selectable fail-safe protection, FDA recognized powder coat finish, hazardous location approval, and C/US listed for Class I, Groups C & D and Class II, Groups E, F & G.	\$233.00	BX1X.
BMRX - 230 VAC - Rotary level indicator power pac featuring a triple-thread, screw-off cover, dual conduit entries, DPDT relay contacts, selectable fail-safe protection, FDA recognized powder coat finish, hazardous location approval, and C/US listed for Class I, Groups C & D and Class II, Groups E, F & G.	\$233.00	BX2X.
BMRX - 24 VDC - Rotary level indicator 12 to 24 VDC with dual conduit entries, DPDT relay contacts, selectable fail-safe protection, and FDA recognized powder coat finish, hazardous location approval, and C/US listed for Class I, Groups C & D and Class II, Groups E, F & G.	\$283.00	BX3X.
BMRX - 24 VAC - Rotary level indicator 24 VAC with dual conduit entries, DPDT relay contacts, selectable fail-safe protection, and FDA recognized powder coat finish, hazardous location approval, and C/US listed for Class I, Groups C & D and Class II, Groups E, F & G.	\$249.00	BX4X.
MAXIMA+ 24/115/230 VAC - Fail-safe rotary level indicator power pac with hazardous location approval, C/US listed for Class II, Groups E, F, & G and a visual LED status light monitoring paddle rotation, paddle covered, and fault conditions. Features a triple-thread, screw-off cover, dual conduit entries, DPDT relay contacts, fail-safe protection, SPDT normal and fault relay contact and FDA recognized powder coat finish.	\$431.00	MX1X.
MAXIMA+ 12-24VDC - Fail-safe rotary level indicator power pac with hazardous location approval, C/US listed for Class II, Groups E, F, & G and a visual LED status light monitoring paddle rotation, paddle covered, and fault conditions. Features a triple-thread, screw-off cover, dual conduit entries, DPDT relay contacts, fail-safe protection, SPDT normal and fault relay contact and FDA recognized powder coat finish.	\$382.00	MX2X.
BMRX - 115 VAC - ATEX - Rotary level indicator power pac featuring a triple-thread, screw-off cover, dual conduit entries, DPDT relay contacts, selectable fail-safe protection, FDA recognized powder coat finish, hazardous location approval, and C/US listed for Class I, Groups C & D and Class II, Groups E, F & G.	\$233.00	BX1A.
BMRX - 230 VAC - ATEX - Rotary level indicator power pac featuring a triple-thread, screw-off cover, dual conduit entries, DPDT relay contacts, selectable fail-safe protection, FDA recognized powder coat finish, hazardous location approval, and C/US listed for Class I, Groups C & D and Class II, Groups E, F & G.	\$233.00	BX2A.
BMRX - 24 VDC - ATEX - Rotary level indicator 12 to 24 VCD with dual conduit entries, DPDT relay contacts, selectable fail-safe protection, and FDA recognized powder coat finish, hazardous location approval and C/US listed for Class I, Groups C & D and Class II, Groups E, F, & G.	\$283.00	BX3A.
BMRX - 24 VAC - ATEX - Rotary level indicator 24 VAC with dual conduit entries, DPDT relay contacts, selectable fail-safe protection, and FDA recognized powder coat finish, hazardous location approval, and C/US listed for Class I, Groups C & D and Class II, Groups E, F, & G.	\$249.00	BX4A.
MAXIMA+ 24/115/230 VAC - ATEX - Fail-safe rotary level indicator power pac with hazardous location approval, C/US listed for Class II, Groups E, F & G and a visual LED status light monitoring paddle rotation, paddle covered, and fault conditions. Features a triple-thread, screw-off cover, dual conduit entries, DPDT relay contacts, fail-safe protection, SPDT normal and fault relay contact and FDA recognized powder coat finish.	\$431.00	MX1A.
MAXIMA+ 12-24 - ATEX - Fail-safe rotary level indicator power pac with hazardous location approval, C/US listed for Class II, Groups E, F, & G and a visual LED status light monitoring paddle rotation, paddle covered, and fault conditions. Features a triple-thread, screw-off cover, dual conduit entries, DPDT relay contacts, fail-safe protection, SPDT normal and fault relay contact and FDA recognized powder coat finish.	\$382.00	MX2A.
SHAFT TYPE		
Bearing End - 5/8" stainless steel shaft extension	\$0.00	B
Hanging rotary extension 5/16" 316 SS	\$0.00	H
Hanging rotary extension 5/16" 316 SS FDA Covered	\$0.00	F

Description	Price	CODE
FITTINGS		
GRPC-1 - 1-1/4" stainless steel process connection fitting & o-ring for 1" coupled pipe guards	\$121.00	A
GRPC-2 - 1-1/2" stainless steel process connection fitting & o-ring for 1" coupled pipe guards	\$125.00	B
GRPC-3 - 1-1/4" Aluminum process connection fitting & o-ring for 1" coupled pipe guards	\$94.00	C
GRPC-4 - 1-1/2" Aluminum process connection fitting & o-ring for 1" coupled pipe guards	\$94.00	D
HEAT TUBES		
6" Aluminum heat tube for rotaries in high temperature applications.	\$86.00	A
8" Aluminum heat tube for rotaries in high temperature applications.	\$123.00	C
12" Aluminum heat tube for rotaries in high temperature applications.	\$133.00	E
6" stainless steel heat tube for rotaries in high temperature applications.	\$84.00	B
8" stainless steel heat tube for rotaries in high temperature applications.	\$92.00	D
12" stainless steel heat tube for rotaries in high temperature applications.	\$100.00	F
HEAT TUBE FITTINGS		
1.25" SS Rotary Heat Tube Coupling	\$108.00	1
1.50" SS Rotary Heat Tube Coupling	\$137.00	2
COUPLING		
GRSS-1 - Solid shaft, stainless steel side mount coupler	\$19.00	S
SHAFT EXTENSION LENGTH		
in. of 3/8" stainless steel shaft extension, includes paddle coupling. Used only with rotaries with a shaft type of Bearing End.	\$156.00 + \$1.02/in.	XX
ft. of vertical mounted flexible hanging rotary extension, single flexible Ø 5/16" (8 mm) 316 stainless steel cable with counterweight and coupler to attach power pac shaft. Counterweight includes shaft to connect paddle. Custom length, maximum length 14'. Used only with rotaries with a shaft type of Hanging.	\$191.00 + \$2.50/in.	XX
ft. of vertical mounted flexible hanging rotary extension, single flexible Ø 5/16" (8 mm) 316 stainless steel cable covered in FDA Grade Nylon with counterweight and coupler to attach power pac shaft. Counterweight includes shaft to connect paddle. Custom length, maximum length 14'. Used only with rotaries with a shaft type of Hanging with FDA Approved Cable.	\$191.00 + \$5.61/in.	XX
GUARD EXTENSIONS		
inches of 1" Aluminum guard pipe	\$1.60/in.	AXX
inches of 1" Stainless steel guard pipe	\$3.53/in.	SXX
inches of 1-1/4" Galvanized guard pipe	\$1.90/in.	GXX
inches of 1-1/4" Stainless steel guard pipe	\$4.93/in.	SXX



Rotary - Mini

The mini-rotary alerts users to material levels in smaller bins and hoppers that contain plastics, food, seed, chemicals, and other powder and bulk solid materials. Its small size and rugged design allows for use of a level sensor where other types of equipment simply will not fit. Its principle of operation is simple: a slow speed motor rotates the paddle when no material is present. When material comes into contact with the paddle, the paddle stops and an alert—such as a light or horn—notifies the operator the bin is full. When the bin is emptied, the paddle begins rotating again. The mini-rotary is simple to install on the side or top of a bin and is appropriate for a variety of light to heavy materials. Paddle options are available, making it adjustable for a wide range of material densities.

Description	Price	Part No.
MINI-ROTARY COMPLETE UNITS		
MR-G-110 - Mini-Rotary 110 VAC with 4-vane, polycarbonate paddle, complete with SPDT contacts	\$242.00	730-0350
MR-G-220 - Mini-Rotary 220 VAC with 4-vane, polycarbonate paddle, complete with SPDT contacts	\$228.00	730-0352
MR-G-24 - Mini-Rotary 24 VAC with 4-vane, polycarbonate paddle, complete with SPDT contacts	\$242.00	730-0392
MR-H-110 - Mini-Rotary 110 VAC with insertable bayonet polycarbonate paddle, complete with SPDT contacts	\$242.00	730-0351
MR-H-220 - Mini-Rotary 220 VAC with insertable bayonet polycarbonate paddle, complete with SPDT contacts	\$228.00	730-0353
MR-I-110 - Mini-Rotary 110 VAC with single-vane, stainless steel rectangular paddle, complete with SPDT contacts	\$235.00	730-0354
MR-I-220 - Mini-Rotary 220 VAC with single-vane, stainless steel rectangular paddle, complete with SPDT contacts	\$228.00	730-0355
MINI-ROTARY PADDLES & ACCESSORIES		
Mini-Rotary 4-vane, polycarbonate paddle turns in a 3.2" diameter, paddle blades are 1.25" wide	\$19.00	299-0936
Mini-Rotary insertable bayonet polycarbonate paddle, turns in a 5" diameter	\$19.00	299-0937
Mini-Rotary single-vane, stainless steel rectangular paddle turns in a 4" diameter, paddle blades are 1.2" wide	\$25.00	299-0938

Description	Price	Part No.
BMRX ROTARY PARTS		
BMRX actuator arm	\$1.10	299-0670
BMRX die cast aluminum cap (short) units after April 2016	\$27.00	220-0419
BMRX die cast aluminum cap AC only units prior to April 2016	\$28.00	220-0366
BMRX die cast aluminum cap DC only units prior to April 2016	\$29.00	220-0370
BMRX housing gasket units prior to April 2016	\$3.30	280-0072
BMRX motor 115 VAC	\$43.00	350-0056
BMRX motor 230 VAC	\$44.00	350-0059
BMRX motor shaft	\$15.00	285-0132
BMRX PCB main 12-14 VDC (Units after May 2014)	\$66.00	530-0791
BMRX PCB main with limit and motor switch 115 VAC	\$65.00	530-0179
BMRX PCB with limit and motor switch 230 VAC	\$66.00	530-0182
BMRX PCB with limit and motor switch 24 VAC	\$73.00	530-0183
BMRX/MAXIMA+ ROTARY PARTS		
BMRX/MAXIMA+ 6 VDC (Units after May 2014)	\$50.00	350-0060
BMRX/MAXIMA+ conduit vent 3/4" NPT	\$8.00	336-0017
BMRX/MAXIMA+ housing gasket units after April 2016	\$2.00	203-0080
BMRX/MAXIMA+ locking tab	\$2.00	299-0679
BMRX/MAXIMA+ motor 24/30 VAC	\$44.00	350-0058
BMRX/MAXIMA+ motor mounting plate	\$14.00	416-0477
BMRX/MAXIMA+ motor spring	\$3.80	292-0036
BMRX/MAXIMA+ o-ring, .139 CORD X 1.88 I.D.	\$2.00	203-0077
BMRX/MAXIMA+ roll pin	\$1.00	150-5004
BMRX/MAXIMA+ Rotary bearing	\$6.00	200-1004
BMRX/MAXIMA+ Rotary conduit plug	\$2.75	175-0188
BMRX/MAXIMA+ Rotary divider all AC units	\$2.00	338-0111
BMRX/MAXIMA+ Rotary divider all DC units	\$2.65	338-0114
BMRX/MAXIMA+ Rotary mounting plate gasket	\$3.00	280-0003
BMRX/MAXIMA+ Rotary retaining ring	\$1.15	165-0002
BMRX/MAXIMA+ Rotary shaft seal	\$4.00	280-0068
BMRX/MAXIMA+ screw, drive #2, u-type	\$0.50	127-0001
BMRX/MAXIMA+ screw, plastics #6-19	\$1.00	175-0182
MAXIMA+ ROTARY PARTS		
MAXIMA+ die cast aluminum cap (tall) units after April 2016	\$30.00	220-0418
MAXIMA+ die cast aluminum cap (tall) units prior to April 2016	\$51.00	220-0364
MAXIMA+ PC board logic AC models (upper)	\$92.00	530-0537
MAXIMA+ PC board logic DC models (upper) (Units after May 2014)	\$107.00	530-0543
MAXIMA+ PCB main DC only	\$95.00	530-0707
MAXIMA+ PCB power (lower)	\$123.00	530-0538
MAXIMA+ photo interrupter	\$45.00	530-0552
MAXIMA+ red lens	\$3.30	335-0071

Description	Price	Part No.
MAXIMA+ slotted timing wheel	\$5.40	299-0699
MAXIMA+ switch assembly	\$20.00	530-0553
GR ROTARY PARTS		
GR parts not listed are no longer available.		
GR II PCB main	\$217.00	530-0069
GR II Slotted timing wheel	\$5.40	299-0331
GR/GRX flat rotary cover gasket	\$5.00	280-0018
GR/GRX micro switch assembly for the limit switch	\$47.00	530-0013
GR/GRX micro switch assembly for the motor switch	\$63.00	530-0012
GR/GRX motor assembly 115 VAC	\$79.00	416-0109
GR/GRX motor only 115 VAC	\$60.00	350-0039
GR/GRX motor only 220 VAC	\$47.00	350-0040
GR/GRX motor Spring	\$2.00	292-0009
GRD/GRDX motor assembly 115 VAC	\$74.00	416-0310



Diaphragm Switch

A diaphragm—or pressure—switch works by activating a sensitive micro-switch when material reaches the level of the switch in the bin. It sends an alert that can be used to start or stop a process or alert to a high, medium or low-level in the vessel. Commonly used in grain, feed, seed or other granular material, BinMaster diaphragm switches are offered for either internal or external mounting and can be wired to a light, horn, alarm, or BinMaster point level alarm panel to indicate an alert status.

Description	Price	Part No.
GENERAL PURPOSE NON-HAZARDOUS LOCATIONS		
BM 45 R - Diaphragm switch with standard .016" thick, black neoprene diaphragm, internally mounted	\$146.00	730-0004
BM 45 F - Diaphragm switch with standard .016" thick black neoprene diaphragm, externally mounted	\$146.00	730-0001
BM 45 RH - Diaphragm switch with heavy duty .031" thick, black neoprene diaphragm, internally mounted	\$150.00	730-0005
BM 45 FH - Diaphragm switch with heavy duty .031" thick, black neoprene diaphragm, externally mounted	\$150.00	730-0002
BM 45 RHT - Diaphragm switch with heavy duty .031" thick, grey silicone diaphragm, internally mounted	\$151.00	730-0006
BM 45 FHT - Diaphragm switch with heavy duty .031" thick, grey silicone diaphragm, externally mounted	\$151.00	730-0003
BM 65 DRHT - Diaphragm switch with heavy duty .031" thick, black neoprene diaphragm, internally mounted with DPDT contact	\$296.00	730-0511
BM 65 DFHT - Diaphragm switch with heavy duty .031" thick, black neoprene diaphragm, externally mounted with DPDT contact	\$296.00	730-0512
HAZARDOUS LOCATIONS		
All diaphragm switches listed below are U/L and CSA listed for Class II, Groups E, F & G		
BM 65 R - Diaphragm switch for hazardous locations with standard .016" thick, black neoprene diaphragm, internally mounted	\$213.00	730-0099
BM 65 F - Diaphragm switch for hazardous locations with standard .016" thick, black neoprene diaphragm, externally mounted	\$213.00	730-0096
BM 65 RH - Diaphragm switch for hazardous locations with .020" Thick, black neoprene with nylon mesh diaphragm, internally mounted	\$217.00	730-0255
BM 65 FH - Diaphragm switch for hazardous locations with .020" Thick, black neoprene with nylon mesh diaphragm, externally mounted	\$217.00	730-0254
BM 65 RHT - Diaphragm switch for hazardous locations with heavy duty .031" thick, grey silicone diaphragm, internally mounted	\$217.00	730-0101
BM 65 RHPC - Plugged chute detection with 0.020" thick, black neoprene with mesh diaphragm and heavy duty switch spring, internally mounted	\$217.00	730-0675
BM 65 FHT - Diaphragm switch for hazardous locations with heavy duty .031" thick, grey silicone diaphragm, externally mounted	\$217.00	730-0098
BM 65 FHS - Diaphragm switch for hazardous locations with .020" Thick, black neoprene with nylon mesh diaphragm, externally mounted, stainless steel mounting plate	\$301.00	730-0473
BM 65 FHPC - Plugged chute detection with 0.020" thick, black neoprene with mesh diaphragm and heavy duty switch spring, externally mounted	\$217.00	730-0676

Description	Price	Part No.
DIAPHRAGM PARTS		
Diaphragm R & F, neoprene 0.016" thick	\$6.60	225-0003
Diaphragm RH & FH, neoprene .032" thick	\$7.10	225-0004
Diaphragm RH & FH, neoprene with nylon mesh, .020" thick	\$7.80	225-0031
Diaphragm RHT & FHT, silicone, .032" thick	\$8.95	225-0005
Diaphragm ring gasket	\$6.60	280-0004
Micro switch mounting bracket	\$5.50	205-0024
DIAPHRAGM PARTS - BM-45		
BM-45 Micro switch assembly R & F	\$24.00	530-0016
BM-45 Micro switch assembly RH, RHT, FH, FHT	\$24.00	530-0042
BM-45 Front mounting plate	\$12.00	270-0024
BM-45 Rear mounting plate	\$13.00	270-0023
BM-45 Spring	\$3.05	292-0001
DIAPHRAGM PARTS - BM-65		
BM-65 Micro switch assembly R & F	\$40.00	530-0017
BM-65 Micro switch assembly RH & FH	\$36.00	530-0222
BM-65 Micro switch assembly RHT & FHT	\$32.00	530-0044
BM-65 Micro switch assembly plugged chute	\$37.00	530-0817
BM-65 Front mounting plate	\$14.00	270-0022
BM-65 Rear mounting plate	\$34.00	270-0063
BM-65 Plunger assembly	\$20.00	416-0046



Tilt Switch

A tilt switch detects rising levels of powders and solids and activates an alert when the device is tilted to 15 degrees. It is commonly used for high level detection in silos, over conveyor belts, in open pits, or for plugged chute detection. These affordable level detectors are available for fixed or hanging mounting, with optional hazardous location approvals, and mercury-free compliance.

Description	Price	Part No.
HANGING TILT SWITCH		
BM-T - Tilt switch for high level limit switch applications	\$268.00	730-0016
18" 316 stainless steel paddle for tilt switch	\$67.00	416-0743
18" 316 stainless steel shaft with sphere for tilt switch	\$132.00	730-0110
MOUNTED TILT SWITCH		
Tilt switch for high-level limit switch application for stationary mounting. Certified for Class II Groups E, F & G. See Rotary section for galvanized and stainless steel shaft extensions.	\$435.00	Standard: 730-0667 ATEX: 730-0667-EX
GRP-2 - Triple-bladed, stainless steel paddle for average weight materials, paddle turns in a 5" diameter, blades are 1-1/2" wide	\$28.00	416-0152
Tilt switch extension float, 5" diameter, 1/4" NPT machined, stainless steel	\$110.00	416-0686
GRMP-2: 0° Mild carbon steel full coupling, powder coated with black neoprene gasket	\$35.00	730-0022
GRMP-4: 0° Stainless steel full coupling with black neoprene gasket	\$89.00	730-0023
GRMP-15: 0° Stainless steel full coupling with white silicone gasket	\$89.00	730-0568
GRMP-9: 10° Mild carbon steel full coupling, powder coated with black neoprene gasket	\$47.00	730-0489
GRMP-16: 20° Mild carbon steel full coupling, powder coated with black neoprene gasket	\$80.00	730-0663
GRMP-13: 30° Mild carbon steel full coupling, powder coated with black neoprene gasket	\$47.00	730-0508
HANGING TILT SWITCH REPLACEMENT PARTS		
BM-T Chrome steel ball (3-pack)	\$14.00	200-9008
BM-T Micro switch	\$40.00	375-0033
BM-T Roll pin	\$2.30	150-5009
BM-T Strain relief	\$21.00	338-0035
BM-T Switch bracket assembly	\$34.00	416-0059
BM-T Switch insulator	\$2.30	338-0033

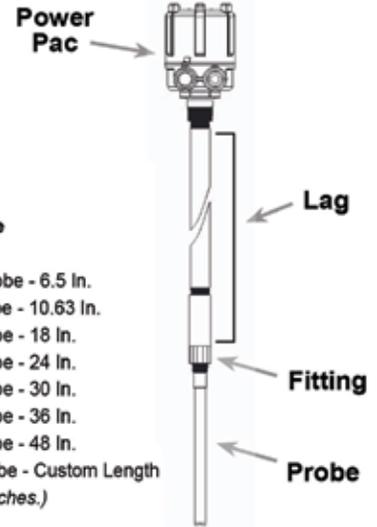


Capacitance Probes

A capacitance probe is a point level indicator, commonly used for high or low level detection in a bin, tank or silo. BinMaster capacitance probes offer fail-safe operation, “quick-set” calibration, plus interference-free operation—working far below the RF level of 9 KHz at just 6 KHz—so they will not interfere with two-way radios or other equipment operating in the radio spectrum.

Description	Price	Part No.
PRE-CONFIGURED PROBES		
CompactPro 115 VAC Compact capacitance probe with buildup protection	\$317.00	730-0250
CompactPro 230 VAC Compact capacitance probe with buildup protection	\$317.00	730-0257
CompactPro 24 VDC Compact capacitance probe with buildup protection	\$320.00	730-0256
1.00" NPS to 1.25" NPT fitting	\$43.00	175-0118
PROCAP I – 24 - Standard OEM capacitance probe with universal power supply 24 to 240 VAC/ VDC with LED status light, triple thread screw off cover, dual conduit entries, DPDT relay con- tacts, selectable fail-safe protection, FDA recognized powder coat finish, shielded bare stainless steel 24" probe, 3/4" SS and 1-1/4" aluminum fittings standard, hazardous location approved, C/ US listed for Class II, Groups E, F, G, with dual time delay	\$510.00	730-0516
PROCAP II – 24 - Standard OEM capacitance probe with selectable 115/230 VAC with LED status light, triple thread screw off cover, dual conduit entries, DPDT relay contacts, selectable failsafe protection, FDA recognized powder coat finish, shielded bare stainless steel 24" probe, 3/4" SS and 1-1/4" aluminum fittings standard, hazardous location approved, C/US listed for Class II, Groups E, F, G, with dual time delay	\$444.00	730-0517

Mark X if none			
Sample			
PC1.	FA	XXXX	11PO1



Probes - additional probes on next page

Delrin - Shielded (1, 2, 4)

- 06P58:** P58 - Shielded, Delrin Sleeved Probe - 6.5 In.
- 11P01:** P1 - Shielded, Delrin Sleeved Probe - 10.63 In.
- 18P02:** P2 - Shielded, Delrin Sleeved Probe - 18 In.
- 24P03:** P3 - Shielded, Delrin Sleeved Probe - 24 In.
- 30P04:** P4 - Shielded, Delrin Sleeved Probe - 30 In.
- 36P05:** P5 - Shielded, Delrin Sleeved Probe - 36 In.
- 48P06:** P6 - Shielded, Delrin Sleeved Probe - 48 In.
- XXP07:** P7 - Shielded, Delrin Sleeved Probe - Custom Length
(Replace XX with length in inches.)

Delrin - Shielded - 3A (3)

- 06P67:** P67 - Shielded, Delrin Sleeved 3-A/USDA Probe - 6.5 In.
- 11P43:** P43 - Shielded, Delrin Sleeved 3-A/USDA Probe - 11 In.
- 18P44:** P44 - Shielded, Delrin Sleeved 3-A/USDA Probe - 18 In.
- 24P45:** P45 - Shielded, Delrin Sleeved 3-A/USDA Probe - 24 In.
- 30P46:** P46 - Shielded, Delrin Sleeved 3-A/USDA Probe - 30 In.
- 36P47:** P47 - Shielded, Delrin Sleeved 3-A/USDA Probe - 36 In.
- 48P48:** P48 - Shielded, Delrin Sleeved 3-A/USDA Probe - 48 In.
- XXP49:** P49 - Shielded, Delrin Sleeved 3-A/USDA Probe - Custom Length
(Replace XX with length in inches.)

Lags - (Use XXXX if none)

- XXLG:** Lagged Probe Fitting - Galvanized (1, 2, 4)
(Replace XX with length in inches.)
- XXLS:** Lagged Probe Fitting - SS (1, 2, 4)
(Replace XX with length in inches.)

Fittings

- FA:** FA - Probe Fitting - 3/4 In. NPT SS for Bare and Delrin Probes (1, 2, 4)
- FB:** FB - Probe Fitting - 1.25 In. NPT SS for Bare and Delrin Probes (1, 2, 4)
- FC:** FC - Probe Fitting - 1 In. Food Grade SS for Bare and Delrin Probes (1, 2, 4)
- FD:** FD - Probe Fitting - 3/4 In. NPT SS for Teflon Probes (1, 2, 4)
- FE:** FE - Probe Fitting - 1 In. Food Grade SS for Teflon Probes (1, 2, 4)
- FF:** FF - Probe Fitting - 1.25 In. NPT SS for Teflon Probes (1, 2, 4)
- FG:** FG - Probe Fitting - 1 In. Sanitary SS for 3-A Tri-Clover Clamp (3)
- FH:** FH - Probe Fitting - 2.5 In. Sanitary SS for 3-A Tri-Clover Clamp (3)
- FI:** FI - Probe Fitting - 3/4 In. SS NPT Extended Lag for Bare and Delrin Probes (1, 2, 4)
- FJ:** FJ - Probe Fitting - 3/4 In. SS NPT Extended Lag for Teflon Probes (1, 2, 4)
- FK:** FK - Probe Fitting - 2 In. Sanitary SS for 3-A Tri-Clover Clamp (3)
- FM:** FM - Probe Fitting - 1.5 In. SS NPT for Bare and Delrin Probes (1, 2, 4)
- FN:** FN - Probe Fitting - 2 In. SS NPT for Bare and Delrin Probes (1, 2, 4)

Power Pacs

- PC1.:** PROCAP I
- PC2.:** PROCAP II
- PC1X.:** PROCAP IIX
- PC2X.:** PROCAP IIX
- PA1.:** PRO AUTO-CAL - 115 VAC
- PA2.:** PRO AUTO-CAL - 230 VAC
- PR1.:** PRO Remote 25 Ft. - 115 VAC
- PR2.:** PRO Remote 25 Ft. - 230 VAC
- PR3.:** PRO Remote 25 Ft. - LV 12-24 VAC/VDC
- PR4.:** PRO Remote 75 Ft. - 115 VAC
- PC13A.:** PROCAP I-3A
- PC23A.:** PROCAP II-3A

- 1: PCI & PCII & AutoCal
- 2: PCIX & PCIIIX
- 3: Pro Remote
- 4: PC13A & PCII3A

Mark X if none

Probes - additional probes on previous page

Delrin - Extended Shielded (1, 2, 4)

- 16P12: P12 - Extended Shield, Delrin Sleeved Probe - 15 In.
- 18P13: P13 - Extended Shield, Delrin Sleeved Probe - 18 In.
- 24P14: P14 - Extended Shield, Delrin Sleeved Probe - 24 In.
- 30P16: P15 - Extended Shield, Delrin Sleeved Probe - 30 In.
- 36P16: P16 - Extended Shield, Delrin Sleeved Probe - 36 In.
- 48P17: P17 - Extended Shield, Delrin Sleeved Probe - 48 In.
- XXP18: P18 - Extended Shield, Delrin Sleeved Probe - Custom Length
(Replace XX with length in inches.)

Delrin - Extended Shielded - 3A (3)

- 16P50: P50 - Extended Shield, Delrin Sleeved 3-A/USDA Probe - 15 In.
- 18P51: P51 - Extended Shield, Delrin Sleeved 3-A/USDA Probe - 18 In.
- 24P52: P52 - Extended Shield, Delrin Sleeved 3-A/USDA Probe - 24 In.
- 30P53: P53 - Extended Shield, Delrin Sleeved 3-A/USDA Probe - 30 In.
- 36P54: P54 - Extended Shield, Delrin Sleeved 3-A/USDA Probe - 36 In.
- 48P55: P55 - Extended Shield, Delrin Sleeved 3-A/USDA Probe - 48 In.

Delrin - Unshielded (1, 2, 4)

- 04P20: P20 - Unshielded, Delrin Sleeved Probe - 4 In.
- 06P72: P72 - Unshielded, Delrin Sleeved Probe - 6 In.
- 11P19: P19 - Unshielded, Delrin Sleeved Probe - 10.63 In.
- 18P21: P21 - Unshielded, Delrin Sleeved Probe - 18 In.
- 24P22: P22 - Unshielded, Delrin Sleeved Probe - 24 In.
- 30P23: P23 - Unshielded, Delrin Sleeved Probe - 30 In.
- 36P24: P24 - Unshielded, Delrin Sleeved Probe - 36 In.
- 48P25: P25 - Unshielded, Delrin Sleeved Probe - 48 In.
- XXP26: P26 - Unshielded, Delrin Sleeved Probe - Custom Length
(Replace XX with length in inches.)

Delrin - Unshielded - 3A (3)

- 04P68: P68 - Unshielded, Delrin Sleeved 3-A/USDA Probe - 4 In.
- 11P41: P41 - Unshielded, Delrin Sleeved 3-A/USDA Probe - 11 In.
- XXP42: P42 - Unshielded, Delrin Sleeved 3-A/USDA Probe - Custom Length
(Replace XX with length in inches.)

Teflon - Shielded (1, 2, 4)

- 07P70: P70 - Shielded, Teflon Sleeved Probe - 6.5 In.
- 11P08: P8 - Shielded, Teflon Sleeved Probe - 10.63 in.
- XXP09: P9 - Shielded, Teflon Sleeved Probe - Custom Length
(Replace XX with length in inches.)

Teflon - Extended Shielded (1, 2, 4)

- XXP04: P63 - Extended Shield, Teflon Sleeved Probe - Custom Length
(Replace XX with length in inches.)

Teflon - Unshielded (1, 2, 4)

- 11P37: P37 - Unshielded, Teflon Sleeved Probe - 10.63 In.
- XXP38: P38 - Unshielded, Teflon Sleeved Probe - Custom Length
(Replace XX with length in inches.)

Bare - Shielded (1, 2, 4)

- 07P83: P63 - Shielded, Bare Stainless Steel Probe - 7 In.
- 11P84: P84 - Shielded, Bare Stainless Steel Probe - 11 In.
- 18P85: P85 - Shielded, Bare Stainless Steel Probe - 18 In.
- 24P64: P64 - Shielded, Bare Stainless Steel Probe - 24 In.
- XXP74: P74 - Shielded, Bare Stainless Steel Probe - Custom Length
(Replace XX with length in inches.)

Bare - Unshielded (1, 2, 4)

- 03P71: P71 - Unshielded, Bare Stainless Steel Probe - 3 In.
- 04P28: P28 - Unshielded, Bare Stainless Steel Probe - 4 In.
- 08P62: P62 - Unshielded, Bare Stainless Steel Probe - 6 In.
- 11P27: P27 - Unshielded, Bare Stainless Steel Probe - 10.63 In.
- 18P29: P29 - Unshielded, Bare Stainless Steel Probe - 18 In.
- 24P30: P30 - Unshielded, Bare Stainless Steel Probe - 24 In.
- 30P67: P57 - Unshielded, Bare Stainless Steel Probe - 30 In.
- 36P66: P56 - Unshielded, Bare Stainless Steel Probe - 36 In.
- 48P31: P31 - Unshielded, Bare Stainless Steel Probe - 48 In.
- 72P32: P32 - Unshielded, Bare Stainless Steel Probe - 72 In.
- 96P33: P33 - Unshielded, Bare Stainless Steel Probe - 96 In.
- XXP34: P34 - Unshielded, Bare Stainless Steel Probe - Custom Length
(Replace XX with length in inches.)

Heavy Duty (1, 4)

- 07PHD: HD Heavy Duty Capacitance Probe - 6.5 in.
- 11PHD: HD Heavy Duty Capacitance Probe - 10.5 in.

Hanging

- XXP65: P65 - Hanging Flexible Cable Probe - Bare SS Shielded (1, 4)
(Replace XX with length in inches.)
- XXP76: P76 - Hanging Flexible Cable Probe - Bare SS Unshielded (1, 4)
(Replace XX with length in inches.)
- XXP86: P86 - Hanging Flexible Cable Probe - Probe Assembly (1, 4)
(Replace XX with length in inches.)
- XXP10: P10 - Hanging Flexible Cable Probe - Teflon Sleeved Shielded (1, 2, 4)
(Replace XX with length in inches.)
- XXP11: P11 - Hanging Flexible Cable Probe - Teflon Sleeved Shielded - Potted (1, 2, 4)
(Replace XX with length in inches.)

Bendable (1, 2, 4)

- 07P93: P93 - 7" Unshielded, Bare Bendable
- 07P92: P92 - 7" Unshielded, Teflon Coated Bendable
- 14P94: P94 - 13.75" Unshielded, bare bendable
- 14P89: P89 - 13.75" Unshielded, Teflon Coated Bendable
- XXP90: P90 - Unshielded, Bendable Teflon Coated Probe - Custom Length
(Replace XX with length in inches.)
- XXP91: P91 - Unshielded, Bendable Bare Probe - Custom Length
(Replace XX with length in inches.)

Flush (1, 2, 4)

- 00P69: P69 - Flush Mounted Probe with Buildup Shield
- 00P81: P81 - High Temp Flush Mount Assembly

Miscellaneous (1, 2, 4)

- 10P39: P39 - Bare SS Probe - 10.19 In.
- 14P88: P88 - Unshielded, Bare SS Probe with 90 Degree Bend
- XXP40: P40 - Bare SS Probe - Custom Length
(Replace XX with length in inches.)

1: PCI & PCII & AutoCal
2: PCIX & PCIIx
3: Pro Remote
4: PCI3A & PCII3A

Description	Price	CODE	Part No.
POWER PACS			
PROCAP I power pac with universal power supply 24 to 240 VAC/VDC with LED status light, triple thread screw-off cover, dual conduit entries, DPDT relay contacts, selectable fail-safe protection, and FDA recognized powder coat finish, hazardous location approved, C/US listed for Class II, Groups E, F, G	\$361.00	PC1.	
PROCAP II power pac with selectable 115/230 VAC with LED status light, triple thread screw-off cover, dual conduit entries, DPDT relay contacts, selectable fail-safe protection, and FDA recognized powder coat finish, hazardous location approved, C/ US listed for Class II, Groups E, F, G	\$305.00	PC2.	
PROCAP IX power pac with universal power supply 24 to 240 VAC/VDC with triple thread screw-off cover, dual conduit entries, DPDT relay contacts, selectable fail-safe protection, FDA recognized powder coat finish, hazardous location approved, C/US listed for Class I, Groups C & D and Class II, Groups E, F, G	\$517.00	PC1X.	
PROCAP IIX power pac with selectable 115/230 VAC with triple thread screw-off cover, dual conduit entries, DPDT relay contacts, selectable fail-safe protection, FDA recognized powder coat finish, hazardous location approved, C/ US listed for Class I, Groups C & D and Class II, Groups E, F, G	\$449.00	PC2X.	
PRO AUTOCAL 115 power pac with 115 VAC, PRO-Shield protection with continuous LED status light, auto calibration and function test, hazardous location approved, C/US listed for Class II, Groups E, F, G	\$649.00	PA1.	
PRO AUTOCAL 230 power pac with 230 VAC, PRO-Shield protection with continuous LED status light, auto calibration and function test, hazardous location approved, C/US listed for Class II, Groups E, F, G	\$649.00	PA2.	
PRO Remote 25' 115 power pac with remote electronics up to 25' from sensor, 115 VAC, intrinsically safe, hazardous location approved, C/US listed for Class I, Groups C & D, Class II, Groups E, F, G (Must order triax cable separately)	\$644.00	PR1.	
PRO Remote 25' 230 power pac with remote electronics up to 25' from sensor, 230 VAC, intrinsically safe, hazardous location approved, C/US listed for Class I, Groups C & D, Class II, Groups E, F, G (Must order triax cable separately)	\$644.00	PR2.	
PRO Remote 25' LV 12-24 power pac with remote electronics up to 25' from sensor, 12-24 VAC/DC (Must order triax cable separately)	\$819.00	PR3.	
PRO Remote 75' power pac with PRO-Shield protection, remote electronics up to 75' from sensor, 115/230 VAC, intrinsically safe, hazardous location approved, C/US listed for Class I, Groups C & D, Class II, Groups E, F, G (Must order triax cable separately)	\$789.00	PR4.	
PROCAP I-3A power pac with universal power supply 24 to 240 VAC/VDC with LED status light, triple thread screw-off cover, dual conduit entries, DPDT relay contacts, selectable fail-safe protection, 3-A and USDA recognized, hazardous location approved, C/US listed for Class II, Groups E, F, G	\$362.00	PC13A.	
PROCAP II-3A power pac with selectable 115/230 VAC with LED status light, triple thread screw-off cover, dual conduit entries, DPDT relay contacts, selectable fail-safe protection, 3-A and USDA recognized, hazardous location approved, C/US listed for Class II, Groups E, F, & G	\$305.00	PC23A.	
FITTINGS			
FA - Probe fitting - 3/4 In. NPT SS for bare and Delrin probes	\$56.00	FA	175-0083
FB - Probe fitting - 1.25 In. NPT SS for bare and Delrin probes	\$72.00	FB	175-0082
FC - Probe fitting - 1 In. Food grade SS for bare and Delrin probes	\$69.00	FC	175-0093
FD - Probe fitting - 3/4 In. NPT SS for Teflon probes	\$102.00	FD	175-0097
FE - Probe fitting - 1 In. Food grade SS for Teflon probes	\$102.00	FE	175-0098
FF - Probe fitting - 1.25 In. NPT SS for Teflon probes	\$69.00	FF	175-0099
FG - Probe fitting - 1 In. Sanitary SS for 3-A tri-clover clamp	\$90.00	FG	175-0107
FH - Probe fitting - 2.5 In. Sanitary SS for 3-A tri-clover clamp	\$241.00	FH	175-0109
FI - Probe fitting - 3/4 In. SS NPT Extended lag for bare and Delrin probes	\$176.00	FI	416-0431
FJ - Probe fitting - 3/4 In. SS NPT Extended lag for Teflon probes	\$237.00	FJ	416-0432
FK - Probe fitting - 2 In. Sanitary SS for 3-A tri-clover clamp	\$185.00	FK	175-0223

Description	Price	CODE	Part No.
FM - Probe fitting - 1.5 In. SS NPT for bare and Delrin probes	\$90.00	FM	175-0227
FN - Probe fitting - 2 In. SS NPT for bare and Delrin probes	\$193.00	FN	175-0237
LAG EXTENSION			
Lagged probe fitting - galvanized connector / stainless steel coupling. Mounting for lagged probe is via the 1.25" threading on the Power Pac only.	\$181.00 + \$1.32/in.	LG	416-0208
Lagged probe fitting - stainless steel connector / stainless steel coupling. Mounting for lagged probe is via the 1.25" threading on the Power Pac only.	\$181.00 + \$3.25/in.	LS	416-0207
PROBES: DELRIN - SHIELDED			
P58 - Shielded, Delrin sleeved probe - 6.5"	\$173.00	06P58	530-0277
P1 - Shielded, Delrin sleeve probe - 10.63"	\$173.00	11P01	530-0197
P2 - Shielded, Delrin sleeve probe - 18"	\$186.00	18P02	530-0243
P3 - Shielded, Delrin sleeve probe - 24"	\$208.00	24P03	530-0244
P4 - Shielded, Delrin sleeve probe - 30"	\$264.00	30P04	530-0245
P5 - Shielded, Delrin sleeve probe - 36"	\$284.00	36P05	530-0246
P6 - Shielded, Delrin sleeve probe - 48"	\$299.00	48P06	530-0247
P7 - Custom length, shielded, Delrin sleeved probe. Maximum length 60"	\$281.00	XXP07	530-0210
PROBES: DELRIN - SHIELDED - 3A			
P67 - Shielded, Delrin sleeved 3-A/USDA probe - 6.5"	\$269.00	07P67	530-0287
P43 - Shielded, Delrin sleeved 3-A/USDA probe - 11"	\$269.00	11P43	530-0225
P44 - Shielded, Delrin sleeved 3-A/USDA probe - 18"	\$292.00	18P44	530-0248
P45 - Shielded, Delrin sleeved 3-A/USDA probe - 24"	\$292.00	24P45	530-0249
P46 - Shielded, Delrin sleeved 3-A/USDA probe - 30"	\$359.00	30P46	530-0250
P47 - Shielded, Delrin sleeved 3-A/USDA probe - 36"	\$359.00	36P47	530-0251
P48 - Shielded, Delrin sleeved 3-A/USDA probe - 48"	\$389.00	48P48	530-0252
P49 - Custom length, shielded, Delrin sleeved, 3-A probe. Maximum length 60"	\$357.00	XXP49	530-0233
PROBES: DELRIN - EXTENDED SHIELDED			
P12 - Extended shield, Delrin sleeved probe - 15"	\$218.00	15P12	530-0259
P13 - Extended shield, Delrin sleeved probe - 18"	\$246.00	18P13	530-0254
P14 - Extended shield, Delrin sleeved probe - 24"	\$256.00	24P14	530-0255
P15 - Extended shield, Delrin sleeved probe - 30"	\$266.00	30P15	530-0256
P16 - Extended shield, Delrin sleeved probe - 36"	\$282.00	36P16	530-0257
P17 - Extended shield, Delrin sleeved probe - 48"	\$292.00	48P17	530-0258
P18 - Custom length, extended shield, Delrin sleeved probe. Maximum length 48"	\$281.00	XXP18	530-0264
PROBES: DELRIN - EXTENDED SHIELDED - 3A			
P50 - Extended shield, Delrin sleeved 3-A/USDA probe - 15"	\$313.00	15P50	530-0269
P51 - Extended shield, Delrin sleeved 3-A/USDA probe - 18"	\$376.00	18P51	530-0270
P52 - Extended shield, Delrin sleeved 3-A/USDA probe - 24"	\$370.00	24P52	530-0271
P53 - Extended shield, Delrin sleeved 3-A/USDA probe - 30"	\$378.00	30P53	530-0272
P54 - Extended shield, Delrin sleeved 3-A/USDA probe - 36"	\$393.00	36P54	530-0273
P55 - Extended shield, Delrin sleeved 3-A/USDA probe - 48"	\$410.00	48P55	530-0274

Description	Price	CODE	Part No.
PROBES: DELRIN - UNSHIELDED			
P20 - Unshielded, Delrin sleeved probe - 4"	\$130.00	04P20	530-0260
P72 - Unshielded, Delrin sleeved probe - 6"	\$130.00	06P72	530-0221
P19 - Unshielded, Delrin sleeved probe - 10.63"	\$130.00	11P19	530-0196
P21 - Unshielded, Delrin sleeved probe - 18"	\$155.00	18P21	530-0238
P22 - Unshielded, Delrin sleeved probe - 24"	\$180.00	24P22	530-0239
P23 - Unshielded, Delrin sleeved probe - 30"	\$197.00	30P23	530-0240
P24 - Unshielded, Delrin sleeved probe - 36"	\$212.00	36P24	530-0241
P25 - Unshielded, Delrin sleeved probe - 48"	\$226.00	48P25	530-0242
P25 - Custom length, unshielded, Delrin sleeved probe. Maximum length 60"	\$230.00	XXP26	530-0213
PROBES: DELRIN - UNSHIELDED - 3A			
P68 - Unshielded, Delrin sleeved 3-A/USDA probe - 4"	\$235.00	04P68	530-0288
P41 - Unshielded, Delrin sleeved 3-A/USDA probe - 11"	\$243.00	11P41	530-0296
P42 - Custom length, unshielded Delrin sleeved 3-A probe. Maximum length 60"	\$332.00	XXP42	530-0229
PROBES: TEFLON - SHIELDED			
P70 - Shielded, Teflon sleeved probe - 6.5"	\$259.00	07P70	530-0295
P8 - Shielded, Teflon sleeved probe - 10.63"	\$259.00	11P08	530-0214
P9 - Custom length shielded, Teflon sleeved probe. Maximum length 60"	\$332.00	XXP09	530-0211
PROBES: TEFLON - EXTENDED SHIELDED			
P63 - Custom length, extended shield, Teflon sleeved probe. Maximum length 48"	\$357.00	XXP63	530-0276
PROBES: TEFLON - UNSHIELDED			
P37 - Unshielded, Teflon sleeved probe - 10.63"	\$233.00	11P37	530-0215
P38 - Custom length, unshielded, Teflon sleeved probe. Maximum length 96"	\$352.00	XXP38	530-0212
PROBES: BARE - SHIELDED			
P83 - Shielded, bare stainless steel probe - 7"	\$105.00	07P83	530-0529
P84 - Shielded, bare stainless steel probe - 11"	\$108.00	11P84	530-0530
P85 - Shielded, bare stainless steel probe - 18"	\$111.00	18P85	530-0531
P64 - Shielded, bare stainless steel probe - 24"	\$146.00	24P64	530-0501
P74 - Custom length, shielded, bare stainless steel probe. Maximum length 78"	\$179.00	XXP74	530-0526
PROBES: BARE - UNSHIELDED			
P71 - Unshielded, bare stainless steel probe - 3"	\$91.00	03P71	530-0199
P28 - Unshielded, bare stainless steel probe - 4"	\$91.00	04P28	530-0267
P62 - Unshielded, bare stainless steel probe - 6"	\$91.00	06P62	530-0202
P27 - Unshielded, bare stainless steel probe - 10.63"	\$96.00	11P27	530-0198
P29 - Unshielded, bare stainless steel probe - 18"	\$103.00	18P29	530-0268
P30 - Unshielded, bare stainless steel probe - 24"	\$122.00	24P30	530-0234
P57 - Unshielded, bare stainless steel probe - 30"	\$133.00	30P57	530-0265
P56 - Unshielded, bare stainless steel probe - 36"	\$150.00	36P56	530-0266
P31 - Unshielded, bare stainless steel probe - 48"	\$162.00	48P31	530-0235
P32 - Unshielded, bare stainless steel probe - 72"	\$181.00	72P32	530-0236
P33 - Unshielded, bare stainless steel probe - 96"	\$195.00	96P33	530-0237

Description	Price	CODE	Part No.
P34 - Custom length, unshielded, bare stainless steel probe. Maximum length 96"	\$204.00	XXP34	530-0200
PROBES: HEAVY DUTY			
HD Heavy Duty Capacitance Probe - This rugged probe comes in a standard 6.5" length and features a PRO-Shield to guard against false readings from material buildup on the probe, with 1-1/4" SS process connection.	\$188.00	07PHD	530-0855
HD Heavy Duty Capacitance Probe - This rugged probe comes in a standard 10.5" length and features a PRO-Shield to guard against false readings from material buildup on the probe, with 1-1/4" SS process connection.	\$188.00	11PHD	530-0834
PROBES: HANGING			
P65 - Bare stainless steel, shielded, hanging flexible cable extension. Sold per foot.	\$166.00 + \$5.75/ft.	XXP65	530-0535
P76 - Bare stainless steel, unshielded, hanging flexible cable extension with Teflon insert for high temperatures. Sold per foot.	\$233.00 + \$5.75/ft.	XXP76	530-0325
P86 - Probe assembly, bare stainless steel, sleeved extended shield, hanging flexible cable probe. Sold per foot.	\$301.00 + \$5.75/ft.	XXP86	530-0524
P10 - Teflon sleeved, shielded, hanging flexible stainless steel cable extension. Sold per foot.	\$387.00 + \$18.00/ft.	XXP10	530-0231
P11 - Teflon sleeved, shielded, hanging flexible stainless steel cable extension, potted. Sold per foot.	\$452.00 + \$18.00/ft.	XXP11	530-0232
PROBES: BENDABLE			
P93 - 7" Unshielded, bare bendable probe, includes 3/4" NPT fitting	\$194.00	07P93	530-0863
P92 - 7" Unshielded, Teflon-coated bendable probe, includes 3/4" NPT fitting	\$244.00	07P92	530-0600
P94 - 13.5" Unshielded, bare bendable probe, includes 3/4" NPT fitting	\$215.00	14P94	530-0862
P89 - 13.75" Unshielded, Teflon-coated bendable probe, includes 3/4" NPT fitting	\$243.00	14P89	530-0544
P90 - Custom length, unshielded, Teflon-coated bendable probe, includes 3/4" NPT fitting. Maximum length 48"	\$230.00	XXP90	530-0571
P91 - Custom length, unshielded, bare bendable probe, includes 3/4" NPT fitting. Maximum length 48"	\$230.00	XXP91	530-0564
PROBES: FLUSH			
P69 - Flush mounted probe with buildup shield	\$308.00	00P69	530-0082
P81 - High temperature flush mount assembly for temperatures up to 450°F	\$551.00	00P81	530-0194
PROBES: MISCELLANEOUS			
P39 - 10.19" Bare stainless steel probe. Teflon insert for high temperature	\$158.00	10P39	530-0227
P88 - 13.75" Unshielded, bare 5/8" diameter stainless steel probe with 90° bend	\$155.00	14P88	530-0546
P40 - Custom length, bare stainless steel probe with Teflon insert for high temperatures. Maximum length 96"	\$255.00	XXP40	530-0228
MOUNTING PLATES: STANDARD MOUNTS			
GRMP-1 - 0° Mild carbon steel half coupling 1.25" with black neoprene gasket	\$32.00		730-0020
GRMP-3 - 0° Stainless steel half coupling 1.25" mounting plate with black neoprene gasket	\$70.00		730-0021
GRMP-9 - 10° Mild carbon steel full coupling 1.25", powder coated with black neoprene gasket	\$47.00		730-0489
GRMP-13 - 30° Mild carbon steel full coupling 1.25", powder coated with black neoprene gasket	\$47.00		730-0508
GRMP-14 - 0° Mild carbon steel half coupling 1.25" with white silicone gasket	\$70.00		730-0567
GRMP-16 - 20° Mild carbon steel full coupling 1.25", powder coated with black neoprene gasket	\$80.00		730-0663
MOUNTING PLATES: BLIND FLANGE MOUNTS			
1" Carbon steel 150 # raised face mounting flange, 3/4" NPT	\$143.00		299-0530
2" Carbon steel 150 # raised face mounting flange, 3/4" NPT	\$120.00		299-0531
3" Carbon steel 150 # raised face mounting flange, 3/4" NPT	\$140.00		299-0532
4" Carbon steel 150 # raised face mounting flange, 3/4" NPT	\$217.00		299-0533

Description	Price	CODE	Part No.
1" Stainless steel 150 # raised face mounting flange, 3/4" NPT	\$192.00		299-0534
2" Stainless steel 150 # raised face mounting flange, 3/4" NPT	\$202.00		299-0535
3" Stainless steel 150 # raised face mounting flange, 3/4" NPT	\$303.00		299-0536
4" Stainless steel 150 # raised face mounting flange, 3/4" NPT	\$406.00		299-0537
4" Stainless steel 150 # raised face mounting flange, 1-1/4" NPT	\$248.00		299-0853
MOUNTING PLATES: FLUSH MOUNTING OPTIONS			
Steel bin wall adapter for thick bin walls and hopper bottoms	\$128.00		290-0071
Bin wall adapter, 5/8" polyethylene	\$264.00		290-0069
ACCESSORIES			
Tri-clover clamp for 1 In. sanitary fitting tri-clover style, quick disconnect clamp for 1" sanitary fitting	\$43.00		215-0146
Tri-clover 1" Stainless steel welding ferrule flange	\$47.00		175-0110
Gasket for Tri-clover clamp connection	\$5.10		280-0054
REMOTE CABLE/BOX			
ft. Triax cable, Teflon 75 Ohm, used with PRO Remote up to 500°F (260°C)	\$13.00/ft.		398-0077
ft. Triax cable, Polyethylene 75 Ohm, used with PRO Remote up to 250°F (120°C)	\$3.80/ft.		398-0093
Triax cable kit with prepared end (for use with PRO Remote 25), Teflon 75 Ohm, used with the PRO Remote 25 up to 500°F (260°C)	\$520.00		530-0310
Triax cable kit with prepared end (for use with PRO Remote 25), Teflon 75 Ohm, used with the PRO Remote 25 up to 250°F (120°C)	\$188.00		530-0300
Pro Remote 25 standard electronic module 115 VAC	\$394.00		730-0532
Pro Remote 25 two conduit electronic module 115 VAC	\$404.00		730-0771
Pro Remote 25 standard electronic module 230 VAC	\$409.00		730-0533
Pro Remote 25 two conduit electronic module 230 VAC	\$419.00		730-0772
Pro Remote 75 standard electronic module 115/230 VAC	\$638.00		730-0535



PROCAP I

- Bright LED status indicator
- Universal power supply
- Triple thread screw-off cover
- Dual conduit entries
- DPDT relay contacts
- Adjustable sensitivity to 0.5 pF
- Easy "Quick-Set" calibration
- Hazardous location approvals



PROCAP II

- Bright LED status indicator
- 115/230 VAC Power supply
- Triple thread screw-off cover
- Dual conduit entries
- DPDT relay contacts
- Adjustable sensitivity to 0.5 pF
- Easy "Quick-Set" calibration
- Hazardous location approvals



PROCAP IX

- Exp. proof Class I, Groups C & D, Class II, Groups E, F & G
- Intrinsically safe
- Universal power supply
- Triple thread screw-off cover
- Dual conduit entries
- DPDT fail-safe relay contacts
- Easy "Quick-Set" calibration



PROCAP IIX

- Exp. proof Class I, Groups C & D, Class II, Groups E, F & G
- Intrinsically safe
- Universal power supply
- Triple thread screw-off cover
- Dual conduit entries
- DPDT fail-safe relay contacts
- Easy "Quick-Set" calibration



PROCAP I 3-A

- Meets 3-A & USDA standards
- Universal power supply
- Bright LED status indicator
- Triple thread screw-off cover
- Dual conduit entries
- DPDT fail-safe relay contacts
- Easy "Quick-Set" calibration
- Hazardous location approval



PROCAP II 3-A

- Meets 3-A & USDA standards
- 115/230 VAC Power supply
- Bright LED status indicator
- Triple thread screw-off cover
- Dual conduit entries
- DPDT fail-safe relay contacts
- Easy "Quick-Set" calibration
- Hazardous location approval



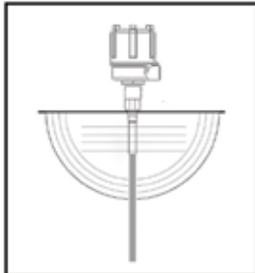
PRO Remote

- Remote electronics located in separate housing, designed for high temp. and vibration
- Explosion proof & intrinsically safe
- DPDT fail-safe relay contacts
- Easy "Quick-Set" calibration
- Adjustable sensitivity to 0.5 pF



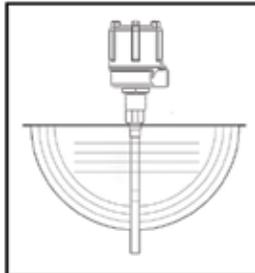
PRO Auto-Cal

- Automatic calibration & testing without removing cover
- Bright LED status indicator
- 115/230 VAC power supply
- DPDT fail-safe relay contacts
- Easy "Quick-Set" calibration
- Adjustable sensitivity to 0.5 pF
- Hazardous location approvals



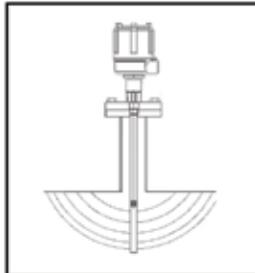
Shielded Bare SS OEM Probe

The bare stainless steel probe is our most versatile all-purpose probe whose length can be modified in the field. It works reliably in bulk solids, slurries, and liquids. It has a rugged 5/8" diameter stainless steel probe featuring "PRO-Shield" protecting against false readings because of buildup or coating.



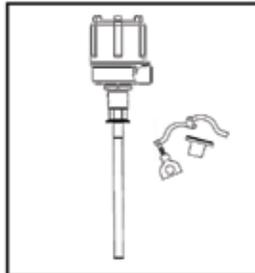
Shielded Delrin or Teflon Shielded Probe

The Delrin/Teflon sleeved probe is a versatile all-purpose fully insulated probe. It works reliably in bulk solids, slurries, and liquids. It has a rugged 5/8" diameter stainless steel probe featuring "PRO-Shield" protecting against false readings because of buildup or coating. Available in lengths from 6.5" to 96".



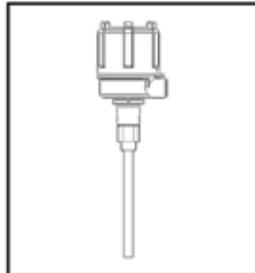
Extended Shield Delrin or Teflon Sleeved Probe

Designed with a 10" extended PRO-Shield, used when mounting the probe through a nozzle of standpipe. It works reliably in bulk solids, slurries, and liquids. It has a rugged 5/8" diameter stainless steel probe featuring "PRO-Shield" protecting against false readings because of buildup or coating. Available in lengths from 15" to 48".



Shielded Delrin Sleeved Sanitary 3-A Probe

Sanitary probe meets 3-A and USDA standards, conforming to the food industry's most demanding requirements for material, surfaces, and clean-in-place construction. This probe is designed for quick disconnect from tank to facilitate ease of inspection and cleaning.



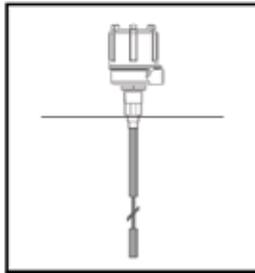
Unshielded Delrin or Teflon Sleeved Probe

The unshielded full insulated Delrin/Teflon sleeved probe is designed to be a lower cost, yet versatile probe. This probe works reliably in bulk solids, powders, slurries, and liquids. Used in applications that require top-mounting or can be side-mounted in free flowing materials.



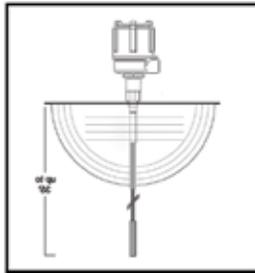
Shielded Bare SS Probe

This is an unshielded probe whose length can be modified in the field. It can be cut back to 3" or extended to 8'. The probe will work reliably in a variety of powders and dry solid materials. Used in applications that require top-mounting or can be side-mounted in free flowing materials.



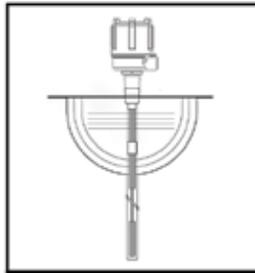
Unshielded Custom Length Bare SS Hanging Flexible Cable

The flexible cable extension was designed for high, mid or low level detection when it is necessary to top mount. This probe is also very effective in aggregate, coal, or other lump materials that might damage a rigid probe. Maximum length of the cable is 35'. Cable can be cut to length in the field.



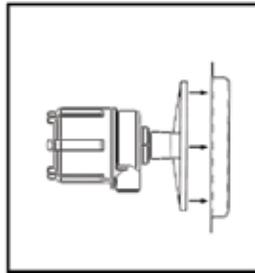
Shielded Custom Length Bare SS Hanging Flexible Cable Probe

This probe was designed for high, mid, or low level applications when it is necessary to top mount. This probe features Pro-Shield protection against false readings due to buildup and will also allow you to mount the probe in a stand-off pipe or nozzle. Maximum cable length is 35'.



Shielded Custom Length Teflon Sleeved Hanging Flexible Cable Extension

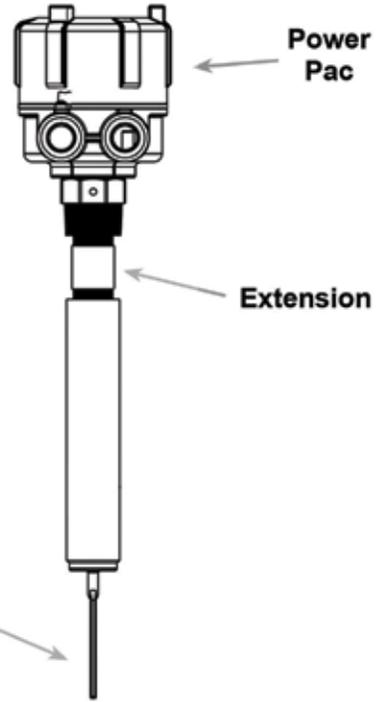
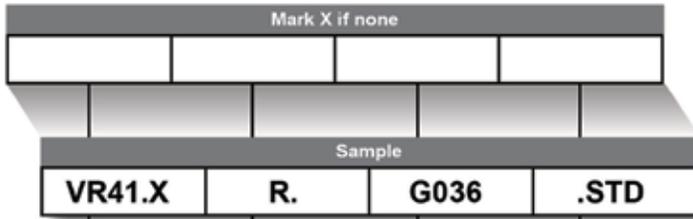
The Teflon sleeved flexible cable was designed for high, mid or low level applications when it is necessary to top mount. The Teflon coated extension is also used in material not compatible with stainless steel, or in situations where high humidity or other internal tank conditions may short-out a bare probe.



Shielded Flush Mounted Probe with Bin Wall Adapter

No probe intrusion designed for space constrained areas or applications where material flow or bridging may damage standard probes. The probe mounts flush on a vessel wall, conveyor housing or chute. An optional bin wall adapter is available when working with thick walls or angled hoppers.

Description	Price	Part No.
PROCAP CAPACITANCE PROBE PARTS		
Capacitance probe housing gasket	\$3.30	280-0072
Capcitanace probe red lens cover	\$3.30	335-0071
PROCAP I, II, IX, & IIX main PCB	\$128.00	530-0614
PROCAP I & IX PCB power supply 24 to 240 VAC/VDC	\$207.00	530-0476
PROCAP II & IIX PCB power supply 115/230 VAC	\$116.00	530-0477
PROCAP I & IX Complete kit, includes PCB power supply 24 to 240 VAC/VDC, PROCAP Main PCB, mounting bracket and screws (fully assembled)	\$366.00	530-0554
PROCAP II & IIX Complete kit, includes PCB power supply 115/230 VAC, PROCAP Main PCB, mounting bracket and screws (fully assembled)	\$290.00	530-0555
PROCAP I & IX fuse	\$2.25	328-0064
PROCAP II & IIX fuse	\$2.25	328-0039
PCB for Pro Remote 25 - no enclosure	\$275.00	530-0146
PCB for Pro Remote 75 - no enclosure	\$424.00	530-0084
PCB for Pro Remote to replace board in sensor	\$35.00	530-0633



Probes
 .STD: Standard Probe (1, 3, 4, 5, 6)
 .HIT: High Temp Probe (1, 3)
 .SED: Sediment Probe (1, 3)
 .SAN: Sanitary Probe (2)

Extensions (Use XXXX if none)
 GXXX: VR Pipe Extension - 1" Galvanized (3, 6)
 SXXX: VR Pipe Extension - 1" Stainless Steel (3, 6)
 YXXX: VR Sanitary Extension (2)
 HXXX: VR Hanging Extension (4)
 (Replace XXX with length in inches)

Remote Housing (Use X if none)
 R. VR Remote Housing & Cable (1, 2, 3, 4)
 R. SHT Remote Housing & Cable (5, 6)

Power Pacs
 VR21.X: VR-21 Ordinary Locations
 VR21.C: VR-21 Hazloc
 VR31.X: VR-31 Sanitary
 VR41.X: VR-41 Ordinary Locations
 VR41.C: VR-41 Hazloc
 VR51.X: VR-51 Ordinary Locations
 SHT120.X: SHT-120
 SHT140.X: SHT-140

1: VR21.X
 2: VR31.X
 3: VR41.X
 4: VR51.X
 5: SHT120.X
 6: SHT140.X



Vibrating Rod

Vibrating Rods—also known as vibrating level switches—are a reliable point level sensor used for high and low-level indication or plugged chute detection. They can be used in light, fluffy powders and flakes with bulk densities as low as 1.25 pounds per cubic feet. BinMaster vibrating rods feature a unique, sword-shaped probe that resists buildup and false alarms. Special models detect sediment under water and a mini vibrating rod fits in tight spaces and small hoppers.

Description	Price	CODE	Part No.
POWER PAC			
VR-21 - Vibrating rod level sensor, 20 to 250V AC/DC, 7.37" insertion length, process temp to 176°F (80°C), triple thread screw-off cover, dual conduit entries, DPDT relay contacts, select- able fail-safe protection, FDA recognized powder coat finish, LED status indicator light. Ordinary locations.	\$681.00	VR21.X	
VR-21-X - Vibrating rod level sensor, 20 to 250V AC/DC, 7.37" insertion length, process temp to 176°F (80°C), triple thread screw-off cover, dual conduit entries, DPDT relay contacts, selectable fail-safe protection, FDA recognized powder coat finish, LED status indicator light; CSA C/US listed for Class II, Groups E, F, & G.	\$735.00	VR21.C	
VR-31 - Sanitary vibrating sensor, 20 to 250V AC/DC, 11.81" insertion length, with a 2" stainless steel sanitary fitting for use with tri-clover style clamp. Process temp to 176°F (80°C).	\$807.00	VR31.X	
VR-41 - Vibrating rod level sensor with pipe extension, 20 to 250V AC/DC, process temp to 176°F (80°C), triple thread screw-off cover, dual conduit entries, DPDT relay contacts, selectable fail-safe protection, FDA recognized powder coat finish, LED status indicator light. Must add pipe extension. Ordinary locations.	\$1,005.00	VR41.X	
VR-41-X - Vibrating rod level sensor with pipe extension, 20 to 250V AC/DC, process temp to 176°F (80°C), triple thread screw-off cover, dual conduit entries, DPDT relay contacts, selectable fail-safe protection, FDA recognized powder coat finish, LED status indicator light. CSA C/US listed for Class II, Groups E, F, & G. Must add pipe extension.	\$1,076.00	VR41.C	
VR-51 - Vibrating rod level sensor with flexible cable extension, 20 to 250V AC/DC, process temp to 176°F (80°C), triple thread screw-off cover, dual conduit entries, DPDT relay contacts, select- able fail-safe protection, FDA recognized powder coat finish, LED status indicator light. Ordinary locations.	\$1,195.00	VR51.X	
SHT-120 - Vibrating rod level sensor with 7.37" insertion length, 20 to 250V AC/DC, high temp probe assembly for maximum process temperature 480°F (250°C)	\$1,072.00	SHT120.X	
SHT-140 - Vibrating rod level sensor, 20 to 250V AC/DC, high temp probe assembly for maximum process temperature 480°F (250°C). Must add rod pipe extension.	\$1,389.00	SHT140.X	
REMOTE HOUSING			
Set of remote electronics for VR-21, 31, 41, and 51 series vibrating rods. Remote housing includes mounting plate and 20 ft. of interconnecting cable with conduit.	\$372.00	R	
Set of remote electronics for SHT-120 and 140 series vibrating rods. Remote housing includes mounting plate and 20 ft. of interconnecting cable with conduit.	\$293.00	R	
EXTENSIONS			
Inches if VR 1" galvanized pipe extension (minimum 13", maximum 13'). Sold per inch.	\$1.35/in.	GXXX	
Inches if VR 1" stainless steel pipe extension (minimum 13", maximum 13'). Sold per inch.	\$3.32/in.	SXXX	
Inches if VR sanitary extension (minimum 12", maximum 78"). Sold per inch.	\$869.00 + \$3.25/in.	YXXX	
Inches if VR hanging extension (minimum 19", maximum 19.5'). Sold per inch.	\$0.46/in.	HXXX	
PROBES			
7.37" Standard diamond shaped vibrating rod probe 176°F (80°C)	\$0.00	.STD	

Description	Price	CODE	Part No.
7.37" Diamond shaped vibrating rod probe for high temperature process 284°F (140°C)	\$171.00	.HIT	
Sediment probe for detecting submersed solids	\$103.00	.SED	
Sanitary probe with 2" stainless steel sanitary fitting	\$0.00	.SAN	
MOUNTING PLATES			
GRMP-6 - 0° 1-1/2" NPT Powder coated carbon steel mounting plate with half coupling	\$39.00		730-0298
GRMP-8 - 0° 1-1/2" NPT Stainless steel mounting plate with half coupling	\$89.00		730-0469
GRMP-11 - 5° 1.5" NPT Powder coated carbon steel mounting plate with half coupling	\$42.00		730-0501
GRMP-12 - 10° 1.5" NPT Powder coated carbon steel mounting plate with half coupling	\$48.00		730-0502
GRMP-18 - 30° 1.5" NPT Powder coated carbon steel mounting plate with half coupling	\$64.00		730-0633
ACCESSORIES			
Tri-clover style, quick disconnect clamp for 2" sanitary fitting	\$74.00		215-0151
Tri-clover 2" stainless steel welding ferrule flange	\$52.00		175-0230
Gasket for tri-clover clamp connection	\$4.30		280-0084



VR-21

The VR-21 is our standard unit with a fixed insertion length of 7.37". It can be mounted on the top or side of a vessel to detect high/medium/low level indication or plugged chute detection. The standard version will operate in temperatures up to 176°F (80°C). A high temperature version is available to operate in temperatures up to 284°F (140°C). A set of remote electronics available for the VR-21 series vibrating rod includes an enclosure with mounting plate, terminal PCB and up to 20 ft. of cable to connect remote electronics.



VR-51

The VR-51 is extendable from 19" up to 19.5' through the use of a flexible cable. This unit is always top mounted and can be used to detect high/medium/low level indication. The standard version will operate in temperatures up to 158°F (70°C). A set of remote electronics available for the VR-41 series vibrating rods includes an enclosure with mounting plate, terminal PCB and up to 20 ft. of cable to connect remote electronics.



VR-41

The VR-41 is extendable from 13" up to 13', through the use of a solid galvanized or stainless steel extension tube. This unit is normally top mounted and can be used to detect high/medium/low level indication. The standard version will operate in temperatures up to 176°F (80°C). A high temperature version available to operate in temperatures up to 284°F (140°C). A set of remote electronics is available for the VR-41 series vibrating rod includes an enclosure with mounting plate, terminal PCB and up to 20 ft. of cable to connect remote electronics.



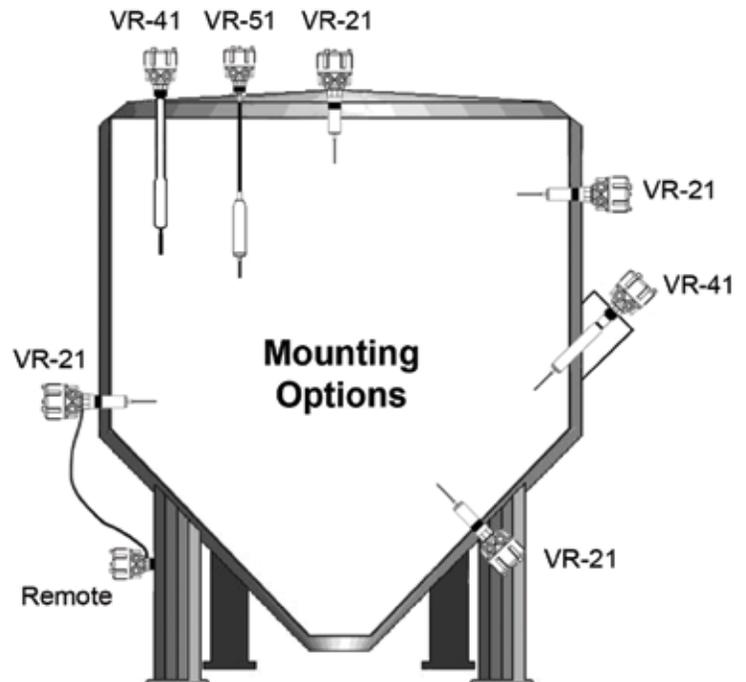
Single Rod Design

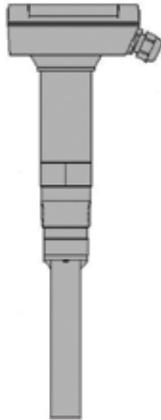
The single rod design eliminates the problem of false signaling due to material wedging and buildup associated with "tuning fork" type probes.



VR-21/41/51 Remote Electronics

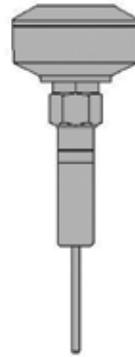
A set of remote electronics available for the VR-21/41/51 series vibrating rods includes an enclosure with mounting plate, terminal PCB and up to 20 ft. of cable to connect remote electronics.





SHT-120

The SHT-120 works in applications with high process temperatures up to 482°F (250°C). The SHT-120 is our standard unit with an insertion length of 7.24". A 2.6" temperature lag tube is standard to lag the electronics away from a heat source or to clear external insulation. A set of remote electronics available for the SHT-120 series vibrating rod includes an enclosure with mounting plate, terminal PCB and up to 20 ft. of cable to connect remote electronics.



CVR-600

The CVR-600 compact vibrating rod is an economical, single-rod, compact point level control that has been designed for use in small bins and hoppers. The CVR-600 has an insertion length of 6". The small, yet rugged design allows you to use CVR-600 where other level sensors simply won't fit.



SHT-140

The SHT-140 is extendable from 13" up to 13', through the use of a solid galvanized or stainless steel extension tube. This unit is normally top mounted and can be used to detect high/medium/low level indication. The SHT-140 works in applications with high process temperatures up to 482°F (250°C). A set of remote electronics available for the SHT-140 series vibrating rod includes an enclosure with mounting plate, terminal PCB and up to 20 ft. of cable to connect remote electronics.



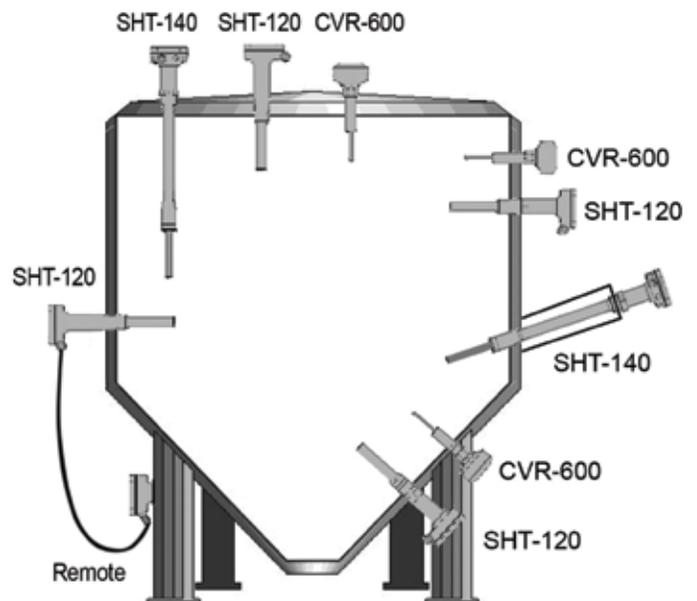
Single Rod Design

The single rod design eliminates the problem of false signaling due to material wedging and buildup associated with "tuning fork" type probes.



SHT-120/140 Remote Electronics

A set of remote electronics available for the SHT-120/140 series vibrating rods includes an enclosure with mounting plate, terminal PCB and up to 20 ft. of cable to connect remote electronics.





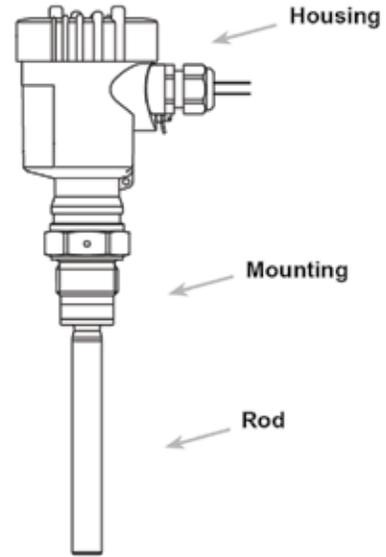
Compact Vibrating Rod

The compact vibrating rod is ideal for small bins, hoppers, and feeders. It is easy to install using a 1" or 1-1/4"NPT mounting socket and can be used in process temperatures up to 300°F. It can be mounted on the top or side of a vessel for high, medium, or low-level indication. The CVR-600 features three sensitivity adjustments allowing it to be used with very light materials (with a bulk density as low as 2) as well as heavier or clingy materials. Remote electronics via a point level alarm panel are available to alert bin levels for four up to 24 individual sensors.

Description	Price	Part No.
POWER PACS		
CVR-600 - Compact vibrating rod level sensor with 1" NPT and 6" insertion length, 20 to 250 VAC/DC	\$591.00	730-0474
CVR-600-HTL - Compact vibrating rod level sensor with 1" NPT and 6" insertion length, 20 to 250 VAC/DC, high temp probe assembly for temperatures up to 300°F (150°C) with 2" temperature insulating lag tube	\$651.00	730-0475
CVR-625 - Compact vibrating rod level sensor with 1-1/4" NPT and 6" insertion length, 20 to 250 VAC/DC	\$615.00	730-0653
CVR-625-HTL - Compact vibrating rod level sensor with 1-1/4" NPT and 6" insertion length, 20 to 250 VAC/DC, high temp probe assembly for temperatures up to 300°F (150°C) with 2" temperature insulating lag tube	\$653.00	730-0654
MOUNTING PLATES		
GRMP-10 - 0° 1" NPT Powder coated carbon steel mounting plate with half coupling	\$46.00	730-0488
GRMP-1 - 0° Mild carbon steel half coupling 1.25" with black neoprene gasket	\$32.00	730-0020
GRMP-2 - 0° Mild carbon steel full coupling 1.25", powder coated with black neoprene gasket	\$35.00	730-0022
GRMP-3 - 0° Stainless steel half coupling 1.25" mounting plate with black neoprene gasket	\$70.00	730-0021
GRMP-4 - 0° Stainless steel full coupling 1.25" with black neoprene gasket	\$89.00	730-0023
GRMP-9 - 10° Mild carbon steel full coupling 1.25", powder coated with black neoprene gasket	\$47.00	730-0489
GRMP-13 - 30° Mild carbon steel full coupling 1.25", powder coated with black neoprene gasket	\$47.00	730-0508
GRMP-14 - 0° Mild carbon steel half coupling 1.25" with white silicone gasket	\$70.00	730-0567
GRMP-15 - 0° Stainless steel full coupling 1.25" with white silicone gasket	\$89.00	730-0568
GRMP-16 - 20° Mild carbon steel full coupling 1.25", powder coated with black neoprene gasket	\$80.00	730-0663

Description	Price	Part No.
VIBRATING ROD REPLACEMENT PARTS		
CVR Series PC board, 20 to 250V AC/DC SPDT	\$315.00	530-0495
SHT Series PC board, 20 to 250V AC/DC SPDT	\$297.00	530-0482
VR Series PC board, 20 to 250V AC/DC DPDT (square enclosure)	\$305.00	530-0321
VR Series PC board, 20 to 250V AC/DC DPDT (round enclosure)	\$280.00	530-0662

Mark X if none					
Sample					
VB-90.	XX	A	NG	R	K



- Housing**
- K:** K - Plastic single chamber
 - A:** A - Aluminium single chamber
 - V:** V - Stainless steel single chamber (precision casting)
 - 8:** 8 - Stainless steel single chamber (electropolished)

- Output**
- C:** C - Contactless electronic switch 20-253 V AC/DC
 - R:** R - Relay DPDT 20-72 V DC / 20-253 V AC (3A)
 - T:** T - Transistor (NPN/PNP) 10-55 V DC
 - Z:** Z - Two-Wire (8/16 mA) 10-36 V DC

- Mounting**
- NC:** NC - Threaded 1.0"
 - NH:** NH - Threaded 1.25"
 - NG:** NG - Threaded 1.5" NPT
 - HA:** HA - Flange 2.0"
 - CA:** CA - 2.0" Clamp

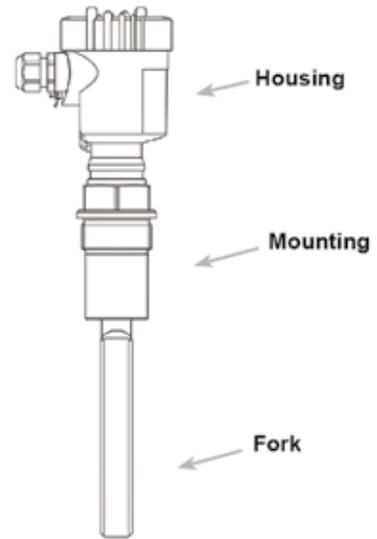
- Version**
- Version:** A - Standard
 - Version:** B - With Adapter
 - Version:** C - Solids in Water Detection

- Approvals**
- XX:** XX - Unclassified Area
 - UX:** UX - FM (NI) Class I, (DIP) Class II, III
 - UF:** UF - FM (IS) Class I, II, III
 - UD:** UD - FM (XP) Class I, (DIP) Class II, III
 - KX:** KX - CSA (NI) Class I, II, III
 - KF:** KF - CSA (IS) Class I, II, III
 - KD:** KD - CSA (XP) Class I, II, III

Base Unit
VR-90.: Vibrating Rod Level Sensor

Description	Price	CODE	Part No.
BASE			
VR-90 - Vibrating rod level sensor with 4.92" buildup resistant round rod	\$798.00	VR-90.	
APPROVALS			
Approvals: XX - Designed for unclassified area, non-EX environment, general purpose FM/CSA/CE	\$0.00	XX	
Approvals: UX - FM (NI) Class I, Div 2, Groups ABCD, (DIP) Class II, III, Div 1, Groups E, F, G	\$153.00	UX	
Approvals: UF - FM (IS) Class I, II, III Div 1, Groups A, B, C, D, E, F	\$153.00	UF	
Approvals: UD - FM (XP) Class I, Div 2, Groups ABCD, (DIP) Class II, III, Div 1, Groups E, F, G	\$364.00	UD	
Approvals: KX - CSA (NI) Class I, II, III Div 2, Groups A, B, C, D, E, F, G	\$153.00	KX	
Approvals: KF - CSA (IS) Class I, II, III Div 1, Groups A, B, C, D, E, F, G	\$153.00	KF	
Approvals: KD - CSA (XP) Class I, II, III Div 1, Groups A, B, C, D, E, F, G	\$364.00	KD	
VERSION			
Version: A - Standard -58°F to 302°F (-50°C to 150°C)	\$0.00	A	
Version: B - With Adapter -58°F to 482°F (-50°C to 250°C)	\$360.00	B	
Version: C - Solids in Water Detection -58°F to 302°F (-50°C to 150°C)	\$336.00	C	
MOUNTING			
Process Connection: NC - Threaded 1.0" PN16, ASME B1.20.1 / 316L (min. 1.15" core hole diameter)	\$0.00	NC	
Process Connection: NH - Threaded 1.25" PN16, ASME B1.20.1 / 316L	\$46.00	NH	
Process Connection: ND - Threaded 1.5" NPT PN16, ASME B1.20.1 / 316L	\$46.00	ND	
Process Connection: HA - Flange 2.0" 150lb RF ASME B16.5 / 316/316L	\$323.00	HA	
Process Connection: CA - 2.0" Clamp PN16 316L	\$120.00	CA	
Process Connection: CD - 1.5" Clamp PN16 316L	\$120.00	CD	
OUTPUT			
Output: C - Contactless electronic switch 20-253 V AC/DC	\$0.00	C	
Output: R - Relay DPDT 20-72 V DC / 20-253 V AC (3A)	\$0.00	R	
Output: T - Transistor (NPN/PNP) 10-55 V DC	\$0.00	T	
Output: Z - Two-Wire (8/16 mA) 10-36 V DC	\$0.00	Z	
HOUSING			
Housing: K - Plastic single chamber / IP66/IP67	\$0.00	K	
Housing: A - Aluminium single chamber / IP66/IP68 (0.2bar)	\$0.00	A	
Housing: V - Stainless steel single chamber (precision casting) / IP66/IP68 (0.2 bar)	\$334.00	V	
Housing: 8 - Stainless steel single chamber (electropolished) / IP66/IP68 (0.2 bar)	\$105.00	8	
MOUNTING PLATES			
GRMP-11 - 5° 1.5" NPT Powder coated carbon steel mounting plate with half coupling	\$42.00		730-0501
GRMP-6 - 0° 1.5" NPT Powder coated carbon steel mounting plate with half coupling	\$39.00		730-0298
GRMP-8 - 0° 1-1/2" NPT Stainless steel mounting plate with half coupling	\$89.00		730-0469
GRMP-18 - 30° 1.5" NPT Powder coated carbon steel mounting plate with half coupling	\$64.00		730-0633
GRMP-12 - 10° 1.5" NPT Powder coated carbon steel mounting plate with half coupling	\$48.00		730-0502
Swivel mount with 1.5" NPT female connector. Can swivel in one direction up to 40°.	\$35.00		SWVL-40

Mark X if none					
Sample					
VF-95.	XX	A	NG	R	K



Housing
K: K - Plastic single chamber
A: A - Aluminium single chamber
V: V - Stainless steel single chamber (precision casting)
8: 8 - Stainless steel single chamber (electropolished)

Output
C: C - Contactless electronic switch 20-253 V AC/DC
R: R - Relay DPDT 20-72 V DC / 20-253 V AC (3A)
T: T - Transistor (NPN/PNP) 10-55 V DC
Z: Z - Two-Wire (8/16 mA) 10-36 V DC

Mounting
NC: NC - Threaded 1.0"
NH: NH - Threaded 1.25"
ND: ND - Threaded 1.5" NPT
HA: HA - Flange 2.0"
CA: CA - 2.0" Clamp

Version
Version: A - Standard
Version: B - With Adapter
Version: C - Solids in Water Detection

Approvals
XX: XX - Unclassified Area
UX: UX - FM (NI) Class I, (DIP) Class II, III
UF: UF - FM (IS) Class I, II, III
UD: UD - FM (XP) Class I, (DIP) Class II, III
KX: KX - CSA (NI) Class I, II, III
KF: KF - CSA (IS) Class I, II, III
KD: KD - CSA (XP) Class I, II, III

Base Unit
VF-95.: Vibrating Fork Level Sensor

Description	Price	CODE	Part No.
BASE			
VF-95 - Vibrating rod level sensor with 316L stainless steel 5.91" tuning fork	\$690.00	VF-95.	
APPROVALS			
Approvals: XX - Designed for unclassified area, non-EX environment, general purpose FM/CSA/CE	\$0.00	XX	
Approvals: UX - FM (NI) Class I, Div 2, Groups ABCD, (DIP) Class II, III, Div 1, Groups E, F, G	\$142.00	UX	
Approvals: UF - FM (IS) Class I, II, III Div 1, Groups A, B, C, D, E, F	\$142.00	UF	
Approvals: UD - FM (XP) Class I, Div 2, Groups ABCD, (DIP) Class II, III, Div 1, Groups E, F, G	\$336.00	UD	
Approvals: KX - CSA (NI) Class I, II, III Div 2, Groups A, B, C, D, E, F, G	\$142.00	KX	
Approvals: KF - CSA (IS) Class I, II, III Div 1, Groups A, B, C, D, E, F, G	\$142.00	KF	
Approvals: KD - CSA (XP) Class I, II, III Div 1, Groups A, B, C, D, E, F, G	\$336.00	KD	
VERSION			
Version: A - Standard -58°F to 302°F (-50°C to 150°C)	\$0.00	A	
Version: B - With Adapter -58°F to 482°F (-50°C to 250°C)	\$360.00	B	
Version: C - Solids in Water Detection -58°F to 302°F (-50°C to 150°C)	\$336.00	C	
MOUNTING			
Process Connection: NC - Threaded 1.0" PN16, ASME B1.20.1 / 316L (min. 1.15" core hole diameter)	\$0.00	NC	
Process Connection: NH - Threaded 1.25" PN16, ASME B1.20.1 / 316L	\$46.00	NH	
Process Connection: ND - Threaded 1.5" NPT PN16, ASME B1.20.1 / 316L	\$46.00	ND	
Process Connection: HA - Flange 2.0" 150lb RF ASME B16.5 / 316/316L	\$323.00	HA	
Process Connection: CA - 2.0" Clamp PN16 316L	\$120.00	CA	
Process Connection: CD - 1.5" Clamp PN16 316L	\$120.00	CD	
OUTPUT			
Output: C - Contactless electronic switch 20-253 V AC/DC	\$0.00	C	
Output: R - Relay DPDT 20-72 V DC / 20-253 V AC (3A)	\$0.00	R	
Output: T - Transistor (NPN/PNP) 10-55 V DC	\$0.00	T	
Output: Z - Two-Wire (8/16 mA) 10-36 V DC	\$0.00	Z	
HOUSING			
Housing: K - Plastic single chamber / IP66/IP67	\$0.00	K	
Housing: A - Aluminium single chamber / IP66/IP68 (0.2bar)	\$0.00	A	
Housing: V - Stainless steel single chamber (precision casting) / IP66/IP68 (0.2 bar)	\$334.00	V	
Housing: 8 - Stainless steel single chamber (electropolished) / IP66/IP68 (0.2 bar)	\$105.00	8	
MOUNTING PLATES			
GRMP-11 - 5° 1.5" NPT Powder coated carbon steel mounting plate with half coupling	\$42.00		730-0501
GRMP-6 - 0° 1.5" NPT Powder coated carbon steel mounting plate with half coupling	\$39.00		730-0298
GRMP-8 - 0° 1-1/2" NPT Stainless steel mounting plate with half coupling	\$89.00		730-0469
GRMP-18 - 30° 1.5" NPT Powder coated carbon steel mounting plate with half coupling	\$64.00		730-0633
GRMP-12 - 10° 1.5" NPT Powder coated carbon steel mounting plate with half coupling	\$48.00		730-0502
Swivel mount with 1.5" NPT female connector. Can swivel in one direction up to 40°.	\$35.00		SWVL-40

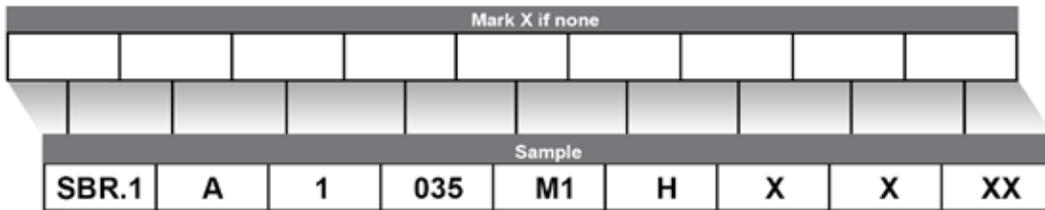
Point Level Alarm Panel



The BinMaster point level alarm panel consolidates information at a convenient centralized location. Available with four to 24 vessel level indicator stations, the alarm panel is capable of monitoring high and low status for two to 12 separate vessels from a single panel. It alerts users to vessel level conditions via a blinking LED light and an audible alarm. The point level alarm panel can be used with multiple point level indicators including a diaphragm switch, rotary paddle, tilt switch, capacitance probe or vibrating rod—enabling the user to be automatically alerted when a bin reaches a full, partially full, or empty level.

Description	Price	Part No.
POINT LEVEL ALARM PANELS		
BM-4 - 4 light panel, 115 VAC, complete with LED lights and buzzer	\$775.00	730-0448
BM-8 - 8 light panel, 115 VAC, complete with LED lights and buzzer	\$1,318.00	730-0449
BM-12 - 12 light panel, 115 VAC, complete with LED lights and buzzer	\$1,893.00	730-0450
BM-16 - 16 light panel, 115 VAC, complete with LED lights and buzzer	\$2,480.00	730-0451
BM-20 - 20 light panel, 115 VAC, complete with LED lights and buzzer	\$3,080.00	730-0481
BM-24 - 24 light panel, 115 VAC, complete with LED lights and buzzer	\$3,610.00	730-0482
JUNCTION BOXES		
4, 8, and 12 station junction box complete with wiring terminal strip	\$361.00	730-0042
16, 20, and 24 station junction box complete with wiring terminal strip	\$451.00	730-0043
HORNS		
Weatherproof horn, 24 VAC, for surface mounting	\$374.00	730-0044
Weatherproof horn, 115 VAC, for surface mounting	\$374.00	730-0045





Pipe Extension Length (use XX if none)
Entered in inches up to XX inches

Pipe Extensions (use X if none)
V: SBPE-1 - Pipe Extension - CPVC 1 In.
S: SBPE-2 - Pipe Extension - SS 1 In.

Options (use X if none)
T: HT - High Temp Option
S: SHT - Super High Temp Option
B: SS - Submersible Solids Option
H: HM - Horizontal Mounting Option

Heater (use X if none)
H: H - Gearbox Heater - 115 VAC
H: H - Gearbox Heater - 230 VAC

Mounting Plate (use XX if none)
M1: Mounting Plate - 0 Degree Powder Coated Aluminum, 5.13" diameter bolt circle
M2: Mounting Plate - 0 Degree Powder Coated Steel, 7" diameter bolt circle
M3: Mounting Plate - 5 Degree Powder Coated Steel, 7" diameter bolt circle
M4: Mounting Plate - 10 Degree Powder Coated Steel, 7" diameter bolt circle
M6: Mounting Plate - 15 Degree Powder Coated Steel, 7" diameter bolt circle
M7: Mounting Plate - 20 Degree Powder Coated Steel, 7" diameter bolt circle
M8: Mounting Plate - 24 Degree Powder Coated Steel, 7" diameter bolt circle
M5: Mounting Plate - 30 Degree Powder Coated Steel, 7" diameter bolt circle
M10: Mounting Plate - 35 Degree Powder Coated Steel, 7" diameter bolt circle
M9: Mounting Plate - 40 Degree Powder Coated Steel, 7" diameter bolt circle
MX: No Mounting Plate

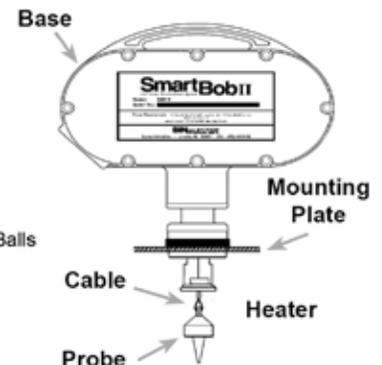
Cable Length (begin with 0 if less than 100 ft.)
Entered in feet up to 150 feet

Cable Type
1: C1 - Cable - Nylon Jacketed
2: C2 - Cable - Teflon Jacketed
3: C3 - Cable - Bare SS
4: C5 - Cable - FDA Nylon Jacketed

Probe
A: B1 - Sensor Probe - SS Heavy Spike Bob
B: B2 - Sensor Probe - Magnetic SS Heavy Spike Bob
C: B3 - Sensor Probe - 4 In. SS Inverted Cone Bob
D: B4 - Sensor Probe - 6 In. SS Inverted Cone Bob
E: B5 - Sensor Probe - 32 Oz. Plastic Digestible Bottle Filled
F: B6 - Sensor Probe - 32 Oz. Plastic Digestible Bottle Empty
I: B9 - Sensor Probe - 6 In. SS Sphere Float Bob
K: B11 - Sensor Probe - Glass Spike Bob
L: B12 - Sensor Probe - 32 Oz. Small Diameter Plastic Digestible Bottle Wax and Steel Balls
M: B13 - Sensor Probe - 6 in. SS Sphere Teflon Coated
N: B14 - Sensor Probe - 6 In. SS Sphere Float Bob

SmartBob II Base Model

SBR.1: SBR II 115 - SmartBob2 Remote Sensor 115 VAC
SBR.2: SBR II 230 - SmartBob2 Remote Sensor 230 VAC
SBA.1: SBR AO 115 - SmartBob2 AO Remote Sensor 115 VAC
SBA.2: SBR AO 230 - SmartBob2 AO Remote Sensor 230 VAC





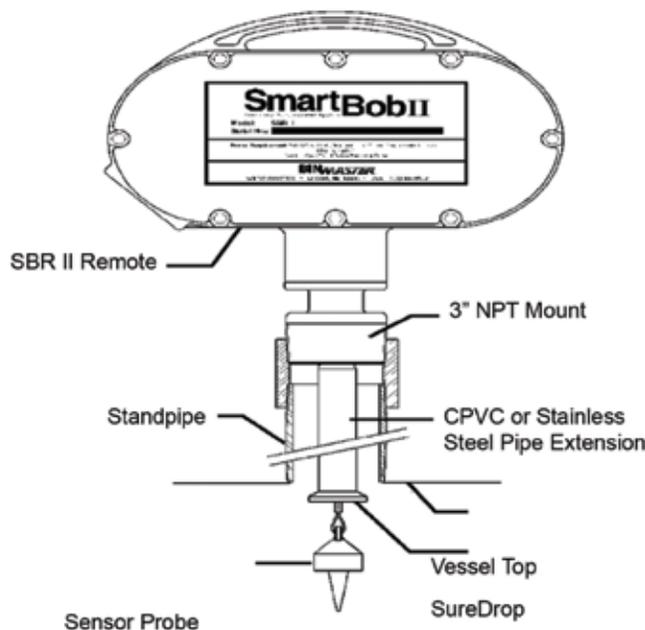
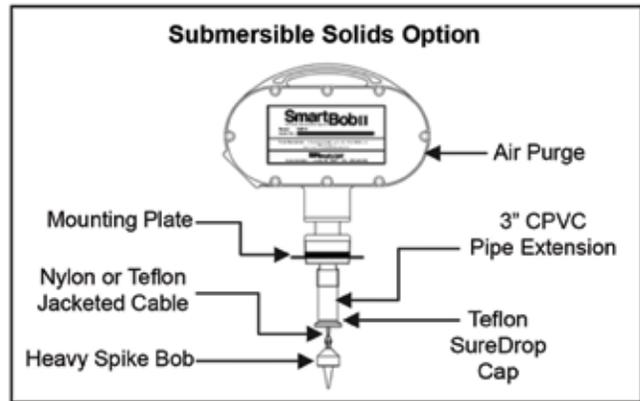
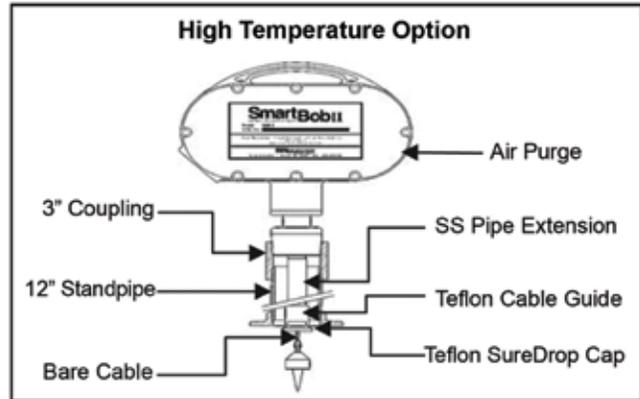
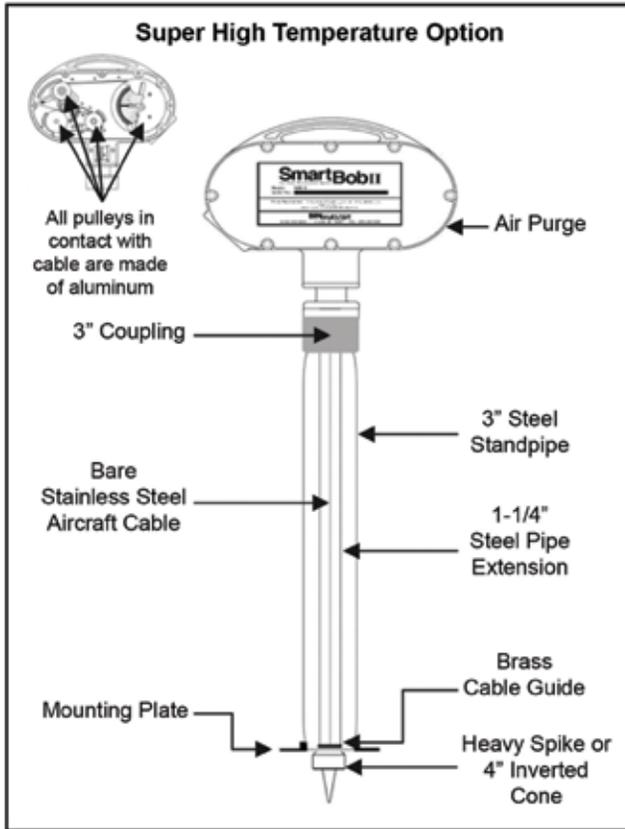
SmartBob II

The SmartBob II is a reliable level measurement system using cable-based sensing technology. SmartBob II can be uniquely configured using a variety of cables, probe designs, and special options for solid, slurry, brine, and liquid applications. Long-lasting, hassle-free service is ensured by SmartBob's cable cleaning system. SmartBob II is extremely rugged, featuring the industry's strongest cable and motor design completely sealed in a strong, lightweight molded polycarbonate enclosure which is explosion proof and rated for Class II, Groups E, F & G certifications.

Description	Price	CODE
BASE		
SBR II 115 - Microprocessor-driven SmartBob II remote sensor, 115 VAC, corrosion-resistant polycarbonate enclosure, air inlet port, hazardous location approved, C/US listed for Class II, Groups E, F, G	\$1,499.00	SBR.1
SBR II 230 - Microprocessor-driven SmartBob II remote sensor, 230 VAC, corrosion-resistant polycarbonate enclosure, air inlet port, hazardous location approved, C/US listed for Class II, Groups E, F, G	\$1,499.00	SBR.2
SBR AO 115 - Microprocessor-driven SmartBob2 AO remote sensor, 115 VAC, corrosion-resistant polycarbonate enclosure with integrated 4-20 mA output. The SmartBob AO is a stand-alone analog transmitter that includes automatic measurement initiation and two configurable relay outputs.	\$1,675.00	SBA.1
SBR AO 230 - Microprocessor-driven SmartBob2 AO remote sensor, 230 VAC, corrosion-resistant polycarbonate enclosure with integrated 4-20 mA output. The SmartBob AO is a stand-alone analog transmitter that includes automatic measurement initiation and two configurable relay outputs.	\$1,675.00	SBA.2
PROBE		
B1 - stainless steel heavy spike bob probe	\$98.00	A
B2 - 416 stainless steel heavy spike bob probe	\$289.00	B
B3 - Weighted 4" Stainless steel inverted cone for light solids	\$239.00	C
B4 - Hollow 6" stainless steel inverted cone for liquid applications	\$201.00	D
B5 - Plastic digestible bottle 32 oz. filled with paraffin wax	\$147.00	E
B6 - Plastic digestible bottle empty, to be filled with 32 oz. of material in field	\$100.00	F
B9 - 6" stainless steel sphere float for liquid, slurry, and light powder applications	\$336.00	I
B11 - Glass spike bob filled with 32 oz. sand	\$266.00	K
B12 - Plastic digestible bottle 32 oz. wax & stainless steel balls	\$124.00	L
B13 - 6" stainless steel Teflon-coated sphere float for liquid, slurry, and light powder applications	\$405.00	M
B14 - Teflon-coated stainless steel heavy spike bob probe	\$191.00	N
CABLE TYPE		
C1 - ft. of Nylon jacketed 7 x 19 stainless steel cable for temperatures up to 250°F with 270 lb. tensile strength and SureDrop system	\$1.20/ft.	1
C2 - ft. of Teflon jacketed 7 x 19 stainless steel cable for temperatures up to 500°F with 270 lb. tensile strength and SureDrop system	\$5.50/ft.	2
C3 - ft. of bare 7 x 19 stainless steel cable for temperatures up to 1,000°F with 270 lb. tensile strength and SureDrop system	\$1.20/ft.	3
C5 - ft. of FDA approved Nylon jacketed 7 x 19 stainless steel cable for temperatures up to 250°F with 270 lb. tensile strength and SureDrop system	\$1.40/ft.	5
MOUNTING PLATE		
M1 - 0° Mounting plate, 3" NPT, powder coated forged aluminum, 5.13" diameter bolt circle	\$57.00	M1
M2 - 0° Mounting plate, 3" NPT, powder coated carbon steel, 7" diameter bolt circle	\$97.00	M2

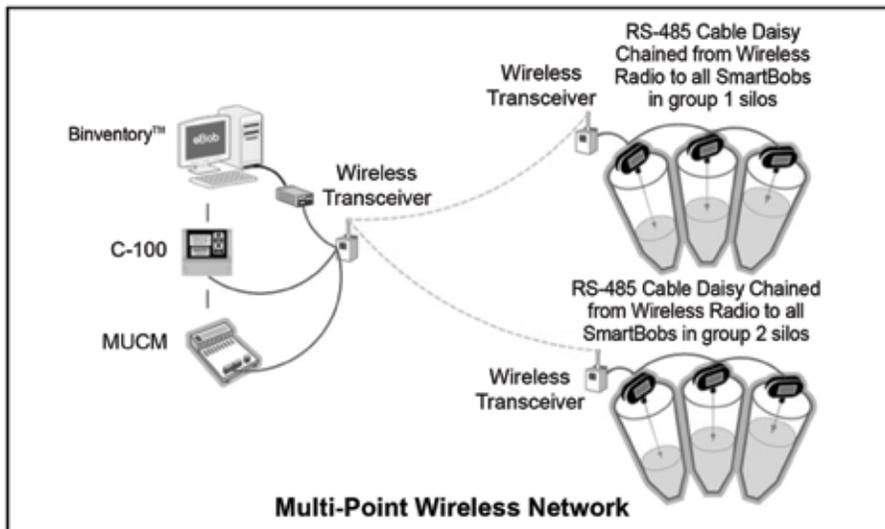
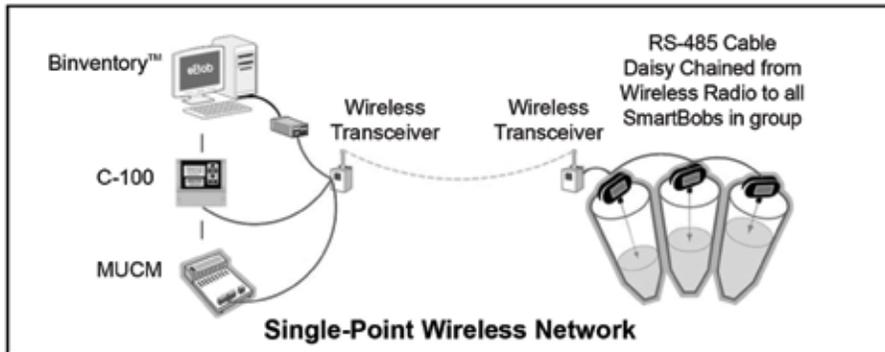
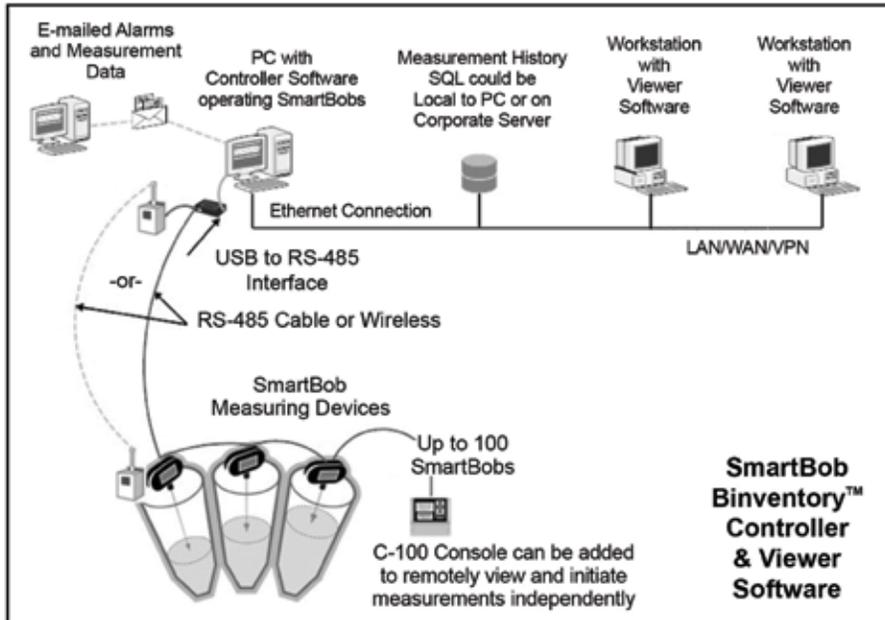
Description	Price	CODE
M3 - 5° Mounting plate, 3" NPT, powder coated carbon steel, 7" diameter bolt circle	\$97.00	M3
M4 - 10° Mounting plate, 3" NPT, powder coated carbon steel, 7" diameter bolt circle	\$97.00	M4
M6 - 15° Mounting plate, 3" NPT, powder coated carbon steel, 7" diameter bolt circle	\$97.00	M6
M7 - 20° Mounting plate, 3" NPT, powder coated carbon steel, 7" diameter bolt circle	\$97.00	M7
M8 - 24° Mounting plate, 3" NPT, powder coated carbon steel, 7" diameter bolt circle	\$101.00	M8
M5 - 30° Mounting plate, 3" NPT, powder coated carbon steel, 7" diameter bolt circle	\$101.00	M5
M10 - 35° Mounting plate, 3" NPT, powder coated carbon steel, 7" diameter bolt circle	\$130.00	M10
M9 - 40° Mounting plate, 3" NPT, powder coated carbon steel, 7" diameter bolt circle	\$130.00	M9
HEATER		
H - 115 VAC Gear box heater for SBR	\$84.00	H
H2 - 230 VAC Gear box heater for SBR	\$153.00	H
OPTIONS		
HT - SmartBob II high temperature option for process temperatures above 250°F and not to exceed 500°F. Includes a 12" long, 3" diameter galvanized pipe standoff to extend the remote sensor away from heat source, a 1" stainless steel pipe extension fitted with a Teflon cable guide keeps the sensor probe out of the standpipe and level with the vessel top.	\$561.00	T
SHT - SmartBob II super high temperature option for process temperatures above 500°F not to exceed 1000°F. Includes a 36" long, 3" diameter galvanized pipe standoff to extend the remote sensor away from heat source, a 1-1/4" galvanized pipe extension fitted with a bronze cable guide keeps the sensor probe out of the standpipe and level with the vessel top. All Delrin pulleys are replaced with aluminum pulleys in the super high temperature option.	\$789.00	S
SS - SmartBob II submersible solids option lowers a weighted heavy stainless steel spike bob from the top of a vessel through the liquid to measure the submersed solids in the liquid. Includes a 3" CPVC pipe extension.	\$90.00	B
HM - SmartBob II horizontal mounting option	\$451.00	H
PIPE EXTENSIONS		
SBPE-1 - Pipe Extension - 1" CPVC. Available in 6" minimum to 60" maximum length	\$59.00 + \$0.95/in.	V
SBPE-2 - Pipe Extension - 1" stainless steel. Available in 6" minimum to 60" maximum length	\$260.00 + \$3.11/in.	S

SmartBob II Remote Options

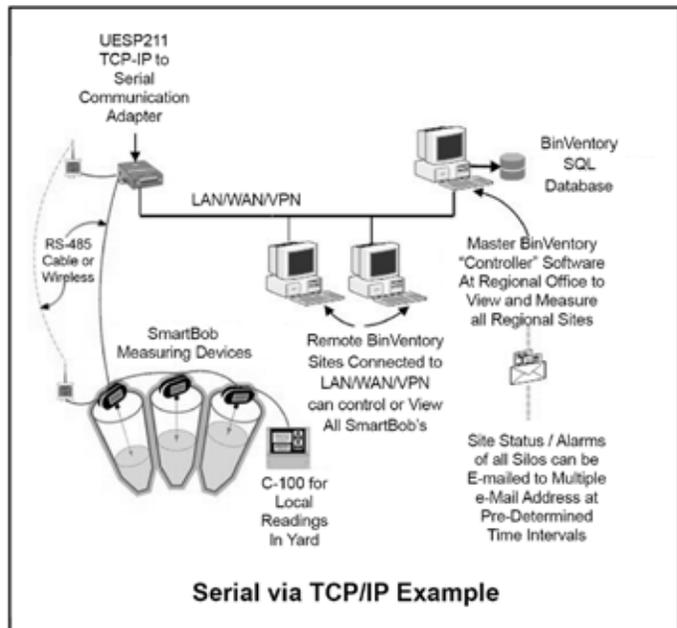
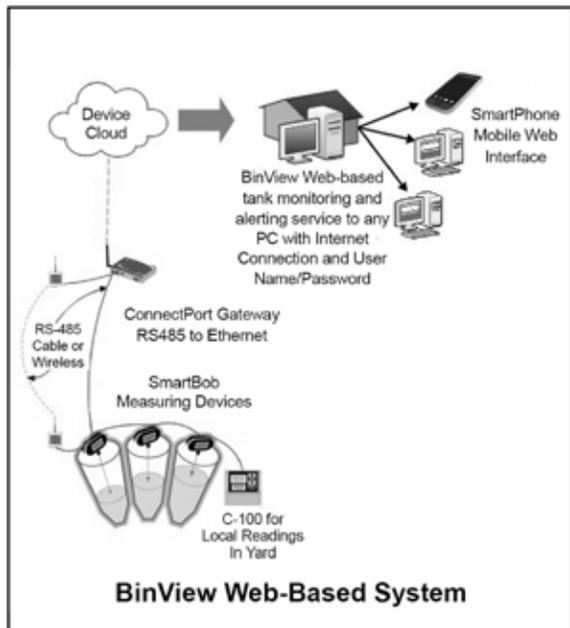
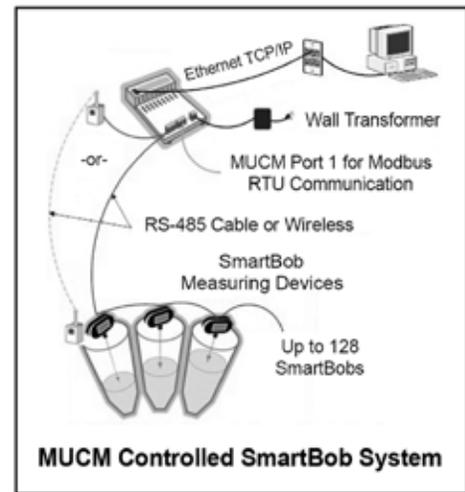
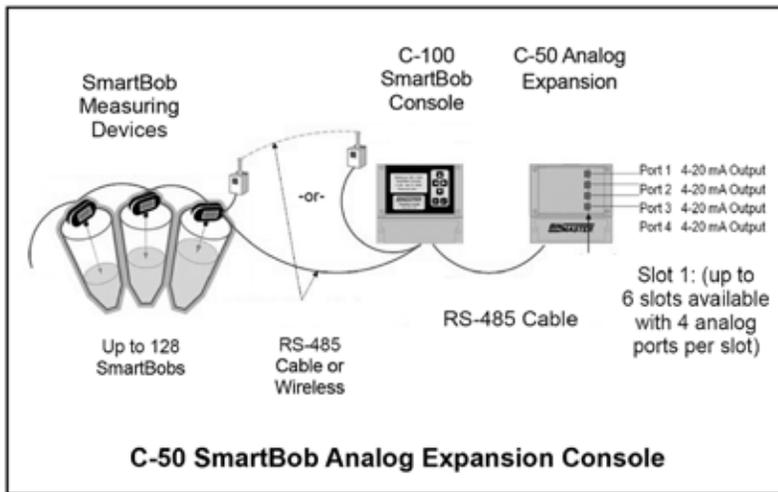
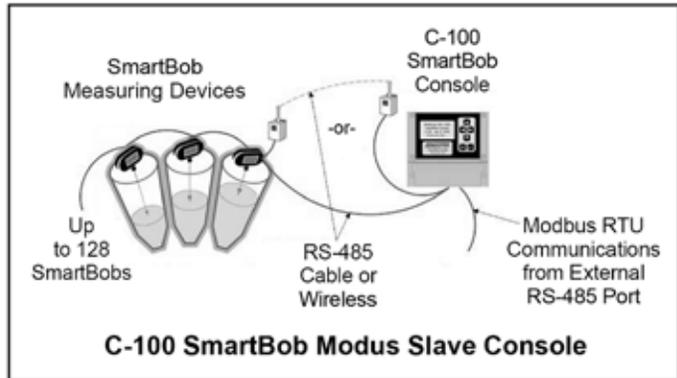
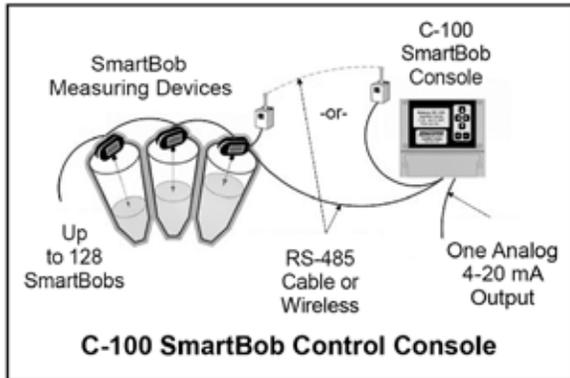


The CPVC pipe extension is an optional feature that is screwed to the 3" NPT SmartBob2 mount. The pipe extension keeps the sensor probe from being pulled up into the standpipe, functions as a bushing, and keeps the cable from fraying on sharp objects if the sensor probe swings while taking a measurement. It also functions to keep the sensor probe flush with the vessel top. The extension pipes are available in CPVC, galvanized pipe, or stainless steel. They are available in custom lengths from 4" to 20'. The reason for a longer extension is so the SmartBob2 remote can be mounted on a catwalk above the vessel and the sensor probe extended down to the vessel top for easy access to the remote.

SmartBob Wireless



SmartBob Control Options



Description	Price	Part No.
CONSOLES		
C-100 - Control console for 1 to 128 bins, wall mount console with LCD display, NEMA 4X or 24 VDC. Measurement formats can be displayed as headroom percentage, headroom height, headroom weight, product percentage, product height and product weight. Vessel configuration and user settings are stored in non-volatile memory and will be retained during a power failure. The C-100 has one 4-20 mA output and remote start contact to provide a traditional interface to a PLC/DCS system for 1 SmartBob sensor.	\$789.00	730-5094
C-100-MB - Modbus control console allows Modbus serial masters to gather data from SmartBob sensors. Modbus protocol is defined as a master/slave protocol, meaning a device operating as a master (the host PC or PLC controller) will poll the Modbus control console operating as a slave. The master will write data to the control console registers, as well as read the data from the control console registers.	\$1,013.00	730-5124
C-50 - Analog expansion box with vertical slots available for 6 analog cards (four 4-20 mA analog loops per card). Must be powered with 24 VDC.	\$735.00	530-5110
C-50 Analog expansion card for new applications	\$310.00	530-0596
TRANSFORMERS		
XFMR-13 - 100-230 VAC / 24 VDC, 15 W, switching power supply to power C-100	\$108.00	730-0318
PSDC-5 Power Supply 90-264 VAC converted to 24 VDC 1 A to power C-100 and C-50	\$42.00	399-0030
PSDC-4 - 24 VDC / 30 VA, NEMA 4X enclosure mounted power supply	\$183.00	730-0577
COMMUNICATION MODULES		
MUCM Profibus communication tophat	\$587.00	344-0004
MUCM DeviceNet communication tophat	\$667.00	344-0003
XFMR-14 - MUCM wall mounted power supply	\$101.00	388-0049
MESR901 - gateway bridge can be used to integrate the C-100MB (Modbus serial master) on a Modbus TCP/IP network. With Modbus TCP/IP, the message is "wrapped" and sent over a computer network instead of serial data cables.	\$623.00	344-0011
MUCM - SmartBob2 Momentum Universal Communication Module (MUCM) allows Modbus serial masters to gather data from SBR II remotes.	\$1,750.00	730-0480
MUCM Ethernet communication tophat	\$650.00	344-0001
MUCM Modbus plus communication tophat	\$464.00	344-0002
BINVENTORY		
Binventory controller software with graphical display and inventory history in a SQL database for up to 99 SBR II remote sensors.	\$1,484.00	730-0537
Binventory Client Viewer software allows multiple-user updating through a GUI front end to a shared SQL database. One Binventory client software package is required per site where the Binventory server software is running. The Binventory client software can be installed on up to five PCs.	\$700.00	730-0538
Binventory software upgrade	\$595.00	323-0060
WIRELESS		
WL-19 - Indoor / outdoor standard (-20°F to +140°F) wireless transceiver unit NEMA 4X with 4dBi omnidirectional antenna, selectable 115 VAC / 230 VAC, RS-485 connection terminal	\$701.00	730-0514
WL-19 - Indoor / outdoor standard (-20°F to +140°F) wireless transceiver unit NEMA 4X with 900 MHz directional Yagi antenna, selectable 115 VAC / 230 VAC, RS-485 connection terminal	\$888.00	730-0515
YDA - Yagi directional antenna	\$292.00	730-0431
SERIAL CONVERTERS		
RS-232 to RS-485 interface used to connect computer serial port to RS-485 network when using Binventory software.	\$266.00	730-0202
Isolated USB to RS-485 converter used to connect USB port to RS-485 network.	\$334.00	530-0174
Mini USB	\$261.00	530-0570
UESP211 - TCP/IP to serial communication adapter	\$157.00	344-0006

Description	Price	Part No.
ft. of Allen-Bradley blue hose RS-485 data cable, 20 AWG shielded twin axial, twisted pair, low capacitance, Belden #9463 or equivalent	\$1.84 /ft.	398-0090

Description	Price	Part No.
SMARTBOB II REPLACEMENT PARTS		
B1 - SS heavy spike Bob replacement kit for SmartBob II	\$145.00	416-0471
B2 - 416 SS heavy spike (magnetic) Bob replacement kit for SmartBob II	\$399.00	416-0472
B3 - Weighted 4" stainless steel inverted cone for light solids	\$299.00	416-0473
B4 - Hollow 6" stainless steel inverted cone for liquid applications	\$312.00	416-0474
B5 - Plastic digestible bottle 32 oz. filled with paraffin wax	\$177.00	416-0475
B6 - Plastic digestible bottle empty, to be filled with 32 oz. of material in field	\$108.00	416-0476
B9 - 6" stainless steel sphere float for liquid, slurry, and light powder applications	\$401.00	416-0545
B11 - Glass spike bob filled with 32 oz. sand	\$335.00	416-0687
B12 - Plastic digestible bottle 32 oz. wax & stainless steel balls	\$156.00	416-0711
B13 - 6" stainless steel Teflon-coated sphere float for liquid, slurry, and light powder applications	\$544.00	416-0696
B14 - Teflon-coated stainless steel heavy spike bob probe	\$244.00	416-0697
SS - Brine spike Bob includes SS heavy spike Bob, SS thimble & crimps for submersed solids applications	\$134.00	416-0590
Brush for SmartBob II sensor's cables or cords	\$4.30	299-0575
Motor brush assembly for SmartBob II sensor's cables or cords - set of 2	\$20.00	350-0055
SBR Left or right retainer assembly with two brushes for cable/cord	\$27.00	416-0540
Oval plated copper cable crimp for SmartBob II	\$0.35	165-0011
Oval stainless steel cable crimp for SmartBob II	\$3.52	165-0028
Round cable crimp stop for SmartBob II	\$0.35	165-0026
Push-in slow blow fuse for SmartBob II	\$3.00	328-0062
Flat replacement gasket for SmartBob II electrical cavity	\$37.00	280-0060
Flat gasket replacement for SmartBob II mechanical cavity	\$49.00	280-0061
Version 2.4 of the IC pic processor for SmartBob II	\$44.00	340-0090
IC, RS-485 transceiver for SmartBob II	\$14.00	340-0033
SmartBob II PC board	\$211.00	530-0158
SmartBob AO PC board	\$336.00	530-0797
Photo interrupter assembly for SmartBob II	\$51.00	530-0619
Idler arm including aluminum pulley with bearing	\$248.00	416-0563
Idler arm including plastic pulley with bearing	\$30.00	416-0642
Plastic pulley kit with double idler for SmartBob II	\$51.00	416-0407
Timing pulley for SmartBob II	\$30.00	272-0079
Replacement 24V motor for SmartBob II remote	\$323.00	350-0049
SmartBob II replacement 3" NPT male connection	\$75.00	258-0092
SmartBob II adapter 1" NPT male to 1" female coupler CPVC	\$18.00	175-0142
SmartBob II removable power terminal - For Demo Units	\$4.80	380-0058
SmartBob II removable communications terminal	\$7.60	380-0054
SmartBob II resistor kit with 5 ohm and 1.5 ohm resistor	\$47.00	530-0599
SmartBob II round rubber ball/shock for plastic digestible bottle	\$2.20	299-0564
SmartBob II SureDrop round Teflon ball (high temp)	\$7.00	299-0625
SmartBob II SureDrop round Acetal ball	\$1.15	299-0799
SmartBob II slotted timing wheel	\$5.40	299-0331

Description	Price	Part No.
SmartBob II SureDrop assembly	\$70.00	416-0364
SmartBob II SureDrop Teflon cap only	\$24.00	212-0038
SmartBob II SureDrop Acetal cap only	\$5.40	212-0042
SmartBob II Terminal crimp ring, holds cable to supply pulley	\$0.70	318-0168
SmartBob II Thimble for 1/16" stainless steel cable, to loop cable around probe	\$1.15	299-0584
SmartBob II Internal transformer 115 VAC / 16 VAC 3A	\$51.00	388-0037
SmartBob II Internal transformer 230 VAC / 16 VAC 3.7A	\$182.00	388-0040
SmartBob II wiper for cable	\$12.00	280-0085
SmartBob II Idler arm extension spring (for units purchase before Dec 15, 2013)	\$8.00	292-0040
SmartBob II Idler arm extension spring (for units purchase after Dec 15, 2013)	\$8.00	292-0049
SmartBob II Idler arm extension spring heavy torsion	\$8.00	292-0045
SmartBob II Idler arm extension spring light torsion for B4, B9, and B13 probes	\$8.00	292-0041
Idler arm including plastic pulley with bearing	\$83.00	416-0624
ft. of C1 - Nylon jacketed 7 x 19 stainless steel cable for temperatures up to 250°F with 270 lb. tensile strength (Cable only not on spool or with crimping parts)	\$1.20	213-0019
ft. of C2 - Teflon jacketed 7 x 19 stainless steel cable for temperatures up to 500°F with 270 lb. tensile strength (Cable only not on spool or with crimping parts)	\$5.50	213-0021
ft. of C3 - bare 7 x 19 stainless steel cable for temperatures up to 500°F with 270 lb. tensile strength (Cable only not on spool or with crimping parts)	\$1.20	213-0020
ft. of C5 - FDA approved Nylon jacketed 7 x 19 stainless steel cable for temperatures up to 250°F with 270 lb. tensile strength (Cable only not on spool or with crimping parts)	\$1.40	213-0025
ft. of C1 - Nylon coated stainless steel cable replace kit, includes thimble, terminal crimp ring and crimps.	\$26.00 + \$1.20/ft.	416-0341-XX
ft. of C2 - Teflon-coated stainless steel cable replace kit, includes thimble, terminal crimp ring and crimps.	\$26.00 + \$5.50/ft.	416-0480-XX
ft. of C3 - bare stainless steel cable replace kit, includes thimble, terminal crimp ring and crimps.	\$26.00 + \$1.20/ft.	416-0481-XX
ft. of C1 - Nylon coated stainless steel cable replace kit, includes thimble, terminal crimp ring and crimps for Brine applications.	\$26.00 + \$1.20/ft.	416-0591-XX
ft. of C1 - Nylon coated stainless steel cable replace kit, includes thimble, terminal crimp ring, crimps, and pulley hub.	\$103.00 + \$1.20/ft.	416-0419-C1-XX
ft. of C2 - Teflon-coated stainless steel cable replace kit, includes thimble, terminal crimp ring, crimps, and pulley hub.	\$103.00 + \$5.50/ft.	416-0419-C2-XX
ft. of C3 - bare stainless steel cable replace kit, includes thimble, terminal crimp ring, crimps, and pulley hub.	\$103.00 + \$1.20/ft.	416-0419-C3-XX
C-50 Analog expansion card for replacement applications	\$306.00	530-0602
Cover for mechanical side	\$80.00	220-0321
Cover for electrical cavity	\$100.00	220-0322



3DLevelScanner

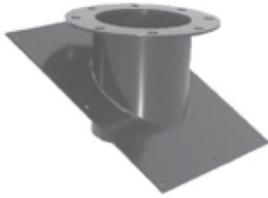
3D scanners provide continuous, non-contact level measurement using dust-penetrating technology for unsurpassed bin volume accuracy. Unlike single point devices, BinMaster's 3DLevelScanners measure multiple points to detect irregular material surfaces, cone up/down conditions, or sidewall buildup. Advanced acoustics-based technology is proven to perform in powders and bulk solids contained in bins, tanks, silos, and domes.

Description	Price	CODE	Part No.
STANDARD			
3DLevelScanner-M with 7.67" diameter horn, 20-36 VDC, 4-20 mA output / Hart protocol, and RS-485 communications. Accurate readings of level and volume of stored materials based on a 70° beam angle. Wider beam angle is appropriate for silos up to 45' in diameter and 200' tall, and where improved accuracy in smaller silos is required. Unit comes with internal LCD display and 3DVision software. Hazardous location approved, FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.	\$4,500.00	3DLS-M	730-0560
3DLevelScanner-MV with 7.67" diameter horn, 20-36 VDC, 4-20 mA output / Hart protocol, and RS-485 communications. Accurate readings of level and volume of stored materials based on a 70° beam angle. Wider beam angle is appropriate for silos up to 45' in diameter and 200' tall, and where improved accuracy in smaller silos is required. Identical to the Model 3DLS-M, with the addition of a special tool that allows 3D graphical representation of the stored contents for display on a remote computer screen. Unit comes with internal LCD display and 3DVision software. Hazardous location approved, FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.	\$5,500.00	3DLS-MV	730-0561
HIGH TEMPERATURES			
3DLevelScanner-M with extended temperature up to 365°F with 7.67" diameter horn, 20-36 VDC, 4-20 mA output / Hart protocol, and RS-485 communications. Accurate readings of level and volume of stored materials based on a 70° beam angle. Wider beam angle is appropriate for silos up to 45' in diameter and 200' tall, and where improved accuracy in smaller silos is required. Unit comes with internal LCD display and 3DVision software. No hazardous locations approvals. One year warranty.	\$4,600.00	3DLS-M-HT	730-0635
3DLevelScanner-MV with extended temperature up to 365°F with 7.67" diameter horn, 20-36 VDC, 4-20 mA output / Hart protocol, and RS-485 communications. Accurate readings of level and volume of stored materials based on a 70° beam angle. Wider beam angle is appropriate for silos up to 45' in diameter and 200' tall, and where improved accuracy in smaller silos is required. Identical to the Model 3DLS-M, with the addition of a special tool that allows 3D graphical representation of the stored contents for display on a remote computer screen. Unit comes with internal LCD display and 3DVision software. No hazardous location approvals. One year warranty.	\$5,600.00	3DLS-MV-HT	730-0636
TEFLON-COATED TRANSDUCER			
3DLevelScanner-M with Teflon-coated 7.67" diameter horn, 20-36 VDC, 4-20 mA output / Hart protocol, and RS-485 communications. Accurate readings of level and volume of stored materials based on a 70° beam angle. Wider beam angle is appropriate for silos up to 45' in diameter and 200' tall, and where improved accuracy in smaller silos is required. Unit comes with internal LCD display and 3DVision software. Hazardous location approved, FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.	\$4,700.00	3DLS-M-TC	730-0638

Description	Price	CODE	Part No.
<p>3DLevelScanner-MV with 7.67" diameter horn, 20-36 VDC, 4-20 mA output / Hart protocol, and RS-485 communications. Accurate readings of level and volume of stored materials based on a 70° beam angle. Wider beam angle is appropriate for silos up to 45' in diameter and 200' tall, and where improved accuracy in smaller silos is required. Identical to the Model 3DLS-M, with the addition of a special tool that allows 3D graphical representation of the stored contents for display on a remote computer screen. Unit comes with internal LCD display and 3DVision software. Hazardous location approved, FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.</p>	\$5,700.00	3DLS-MV-TC	730-0639
RL ACOUSTIC			
<p>Acoustic level sensor RL, 4-20 mA and RS-485 output. Four-wire 24 VDC power. Maximum operating temperature 185°F (85°C). Unit comes with internal LCD display and 3DVision software. One year warranty.</p>	\$2,500.00	3DLS-RL	730-0646
<p>Acoustic level sensor RL High Temperature, 4-20 mA and RS-485 output. Four-wire 24 VDC power. Maximum operating temperature 365°F (185°C). Unit comes with internal LCD display and 3DVision software. FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.</p>	\$2,600.00	3DLS-RL-HT	730-0647
<p>Acoustic level sensor RL with Teflon-coated horn, 4-20 mA and RS-485 output. Four-wire 24 VDC power. Maximum operating temperature 185°F (85°C). Unit comes with internal LCD display and 3DVision software. FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.</p>	\$2,700.00	3DLS-RL-TC	730-0652
MULTIPLE SCANNER SYSTEMS			
<p>3DLevelScanner-MVL is for use in multiple scanner systems that include the 3D visualization feature. It features a 7.67" diameter horn, 20-36 VDC, 4-20 mA output / Hart protocol, and RS-485 communications. When used in a multi-scanner system, it provides accurate readings of level and volume for stored materials based on two or more synchronized MVL units. The multiscanner system provides an analog output which represents (as a default value) the overall volume of the contents of the entire silo. Unit comes with internal LCD display and 3DVision software. A controller (purchased separately) calculates volume and unifies the visualization by integrating data from multiple scanners. Appropriate for silos up to 200' tall. Hazardous location approved, FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.</p>	\$5,700.00	3DLS-MVL	730-0626
<p>3DLevelScanner-MVL with extended temperature up to 365°F is for use in multiple scanner systems that include the 3D visualization feature. It features a 7.67" diameter horn, 20-36 VDC, 4-20 mA output / Hart protocol, and RS-485 communications. When used in a multi-scanner system, it provides accurate readings of level and volume for stored materials based on two or more synchronized MVL units. The multiscanner system provides an analog output which represents (as a default value) the overall volume of the contents of the entire silo. Unit comes with internal LCD display and 3DVision software. A controller (purchased separately) calculates volume and unifies the visualization by integrating data from multiple scanners. Appropriate for silos up to 200' tall. No hazardous location approvals. One year warranty.</p>	\$5,800.00	3DLS-MVL-HT	730-0644
<p>3DLevelScanner-MVL is for use in multiple scanner systems that include the 3D visualization feature. It features a 7.67" diameter horn, 20-36 VDC, 4-20 mA output / Hart protocol, and RS-485 communications. When used in a multi-scanner system, it provides accurate readings of level and volume for stored materials based on two or more synchronized MVL units. The multiscanner system provides an analog output which represents (as a default value) the overall volume of the contents of the entire silo. Unit comes with internal LCD display and 3DVision software. A controller (purchased separately) calculates volume and unifies the visualization by integrating data from multiple scanners. Appropriate for silos up to 200' tall. Hazardous location approved, FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.</p>	\$5,900.00	3DLS-MVL-TC	730-0643
MULTIPLE SCANNER CONTROLLER			
<p>Multi-scanner system controller with 3DVision software. The software processes the measurement data recorded by each of the scanners in the multi-scanner system in the silo, open bin, or warehouse. A special algorithm combines the data from the scanners in the system and provides general vessel information as well as volume, minimum and maximum level, distance and mass. When used with 3DLS-MVL/HT/TC models, the software also provides a 3D visualization.</p>	\$1,500.00	IC-3DMVL	730-0648
WIRELESS TRANSCEIVERS & ACCESSORIES			
Ubiquiti - Wireless Ethernet Modem - WEM	\$230.00	WEM	730-0673
Ubiquiti - Rocket M5 Base Station Radio	\$213.00	Rocket M5 56 GHz	530-0814

Description	Price	CODE	Part No.
Ubiquiti - Base Station 56Ghz Antenna	\$338.00	Antenna	303-0025
MCK - Media converter kit in NEMA 4X enclosure 10" x 8" x 4"	\$1,026.00	MCK	730-0674
ETH-USB - Ethernet to USB adapter	\$101.00	ETH-USB	344-0013
CONNECTION ACCESSORIES			
BinMaster 3D MultiVision software works in conjunction with all models of the 3DLevelScanner sensors to provide measurement data to a Windows®-based computer. The software is used to view the inventory in multiple silos, and over multiple locations (unlimited users).	\$1,500.00	3DVS	730-0598
Isolated USB to RS-485 converter used to connect USB port to RS-485 network	\$334.00	RS-485-USBI	530-0174
ft. of RS-485 communication cable, shielded twin axial, twisted pair, low capacitance, Belden 3105A	\$2.20	Data Cable	398-0543
USB to HART modem	\$566.00	USB-HRT	344-0016
UESP211 - TCP-IP to serial communication adapter	\$157.00	UESP211	344-0006
PSDC-1 - 24 VDC / 30 VA, NEMA 1 din rail mounted power supply	\$111.00	PSDC-1	399-0022
PSDC-4 - 24 VDC / 30 VA, NEMA 4X enclosure mounted power supply	\$183.00	PSDC-4	730-0577
MOUNTING PLATES			
3DMP-CS - 0° Mild carbon steel powder coated mounting plate, 13.38" diameter with 11.75" bolt hole circle	\$224.00	3DMP-CS	416-0565
3DMP-SS - 0° stainless steel mounting plate, 13.38" diameter with 11.75" bolt hole circle	\$321.00	3DMP-SS	416-0566
3DMP-CS0 - 0° Mild carbon steel powder coated mounting assembly (must order with 0° mounting plate)	\$304.00	3DMP-CS0	416-0571
3DMP-CS5 - 5° Mild carbon steel powder coated mounting assembly (must order with 0° mounting plate)	\$304.00	3DMP-CS5	416-0551
3DMP-CS10 - 10° Mild carbon steel powder coated mounting assembly (must order with 0° mounting plate)	\$304.00	3DMP-CS10	416-0552
3DMP-CS15 - 15° Mild carbon steel powder coated mounting assembly (must order with 0° mounting plate)	\$304.00	3DMP-CS15	416-0553
3DMP-CS20 - 20° Mild carbon steel powder coated mounting assembly (must order with 0° mounting plate)	\$304.00	3DMP-CS20	416-0554
3DMP-CS30 - 30° Mild carbon steel powder coated mounting assembly (must order with 0° mounting plate)	\$304.00	3DMP-CS30	416-0555
3DMPK-CS0 - Flat mild carbon steel mounting plate and 0° mild carbon steel powder coated mounting assembly	\$525.00	3DMPK-CS0	416-0650
3DMPK-CS5 - Flat mild carbon steel mounting plate and 5° mild carbon steel powder coated mounting assembly	\$525.00	3DMPK-CS5	416-0651
3DMPK-CS10 - Flat mild carbon steel mounting plate and 10° mild carbon steel powder coated mounting assembly	\$525.00	3DMPK-CS10	416-0652
3DMPK-CS15 - Flat mild carbon steel mounting plate and 15° mild carbon steel powder coated mounting assembly	\$525.00	3DMPK-CS15	416-0653
3DMPK-CS20 - Flat mild carbon steel mounting plate and 20° mild carbon steel powder coated mounting assembly	\$525.00	3DMPK-CS20	416-0654
3DMPK-CS30 - Flat mild carbon steel mounting plate and 30° mild carbon steel powder coated mounting assembly	\$525.00	3DMPK-CS30	416-0655
EXTENSION KITS			
3DLevelScanner 2' neck extension kit, contains top and bottom stainless steel fittings, 2' connection cable, and 2' threaded galvanized extension pipe. Total separation distance 2.5'.	\$1,058.00	3DEXT-KIT 2G	416-0592
3DLevelScanner 4' neck extension kit, contains top and bottom stainless steel fittings, 4' connection cable, and 4' threaded galvanized extension pipe. Total separation distance 4.5'.	\$1,143.00	3DEXT-KIT 4G	416-0593
3DLevelScanner 6' neck extension kit, contains top and bottom stainless steel fittings, 6' connection cable, and 6' threaded galvanized extension pipe. Total separation distance 6.5'.	\$1,218.00	3DEXT-KIT 6G	416-0594
3DLevelScanner 10' neck extension kit, contains top and bottom stainless steel fittings, 10' connection cable, and 10' threaded galvanized extension pipe. Total separation distance 10.5'.	\$1,407.00	3DEXT-KIT 10G	416-0595

Description	Price	CODE	Part No.
3DLevelScanner 1' neck extension kit, contains top and bottom stainless steel fittings, 1' connection cable, and stainless steel coupler. Total separation distance 1'.	\$677.00	3DEXT-KIT 1S	416-0662
3DLevelScanner 2' neck extension kit, contains top and bottom stainless steel fittings, 2' connection cable, and 2' threaded stainless steel extension pipe. Total separation distance 2.5'.	\$1,110.00	3DEXT-KIT 2S	416-0596
3DLevelScanner 4' neck extension kit, contains top and bottom stainless steel fittings, 4' connection cable, and 4' threaded stainless steel extension pipe. Total separation distance 4.5'.	\$1,241.00	3DEXT-KIT 4S	416-0597
3DLevelScanner 6' neck extension kit, contains top and bottom stainless steel fittings, 6' connection cable, and 6' threaded stainless steel extension pipe. Total separation distance 6.5'.	\$1,376.00	3DEXT-KIT 6S	416-0598
3DLevelScanner 10' neck extension kit, contains top and bottom stainless steel fittings, 10' connection cable, and 10' threaded stainless steel extension pipe. Total separation distance 10.5'.	\$1,645.00	3DEXT-KIT 10S	416-0599
3DLevelScanner 2' neck extension kit, contains top and bottom stainless steel fittings, 2' connection cable, NO PIPE (customer supplies own pipe up to 2' length)	\$1,017.00	3DEXT-KIT 2NP	416-0600
3DLevelScanner 4' neck extension kit, contains top and bottom stainless steel fittings, 4' connection cable, NO PIPE (customer supplies own pipe up to 4' length)	\$1,058.00	3DEXT-KIT 4NP	416-0601
3DLevelScanner 6' neck extension kit, contains top and bottom stainless steel fittings, 6' connection cable, NO PIPE (customer supplies own pipe up to 6' length)	\$1,097.00	3DEXT-KIT 6NP	416-0602
3DLevelScanner 10' neck extension kit, contains top and bottom stainless steel fittings, 10' connection cable, NO PIPE (customer supplies own pipe up to 10' length)	\$1,175.00	3DEXT-KIT 10NP	416-0603



30° mounting plate



Scanner with flat mounting plate inserts through 30° mounting plate



Assembled flat and 30° mounting plates



0° Mounting Plate



Pre-Assembly

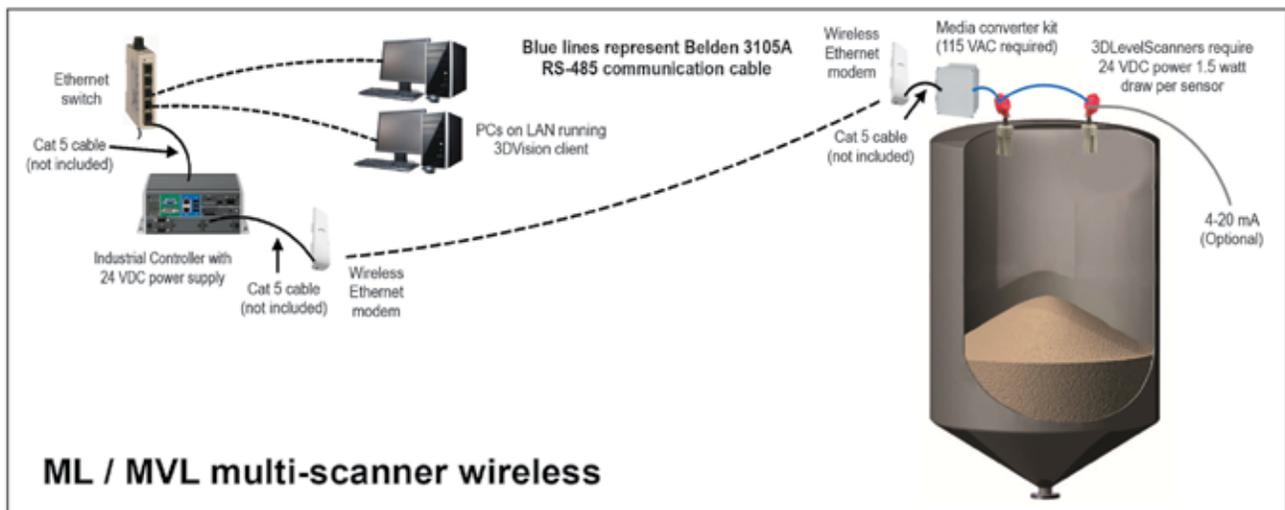
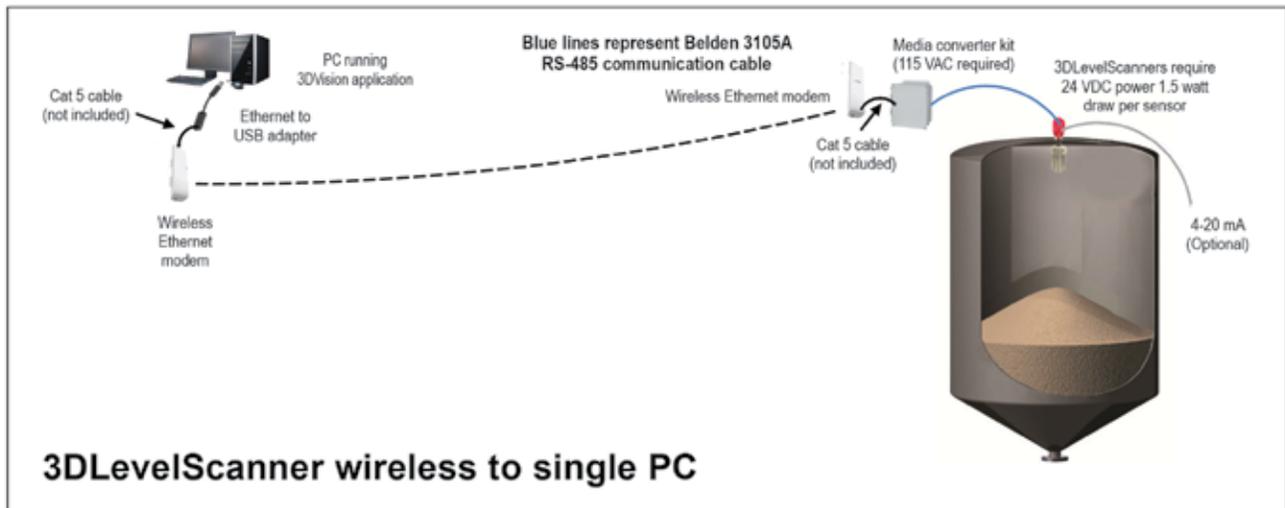
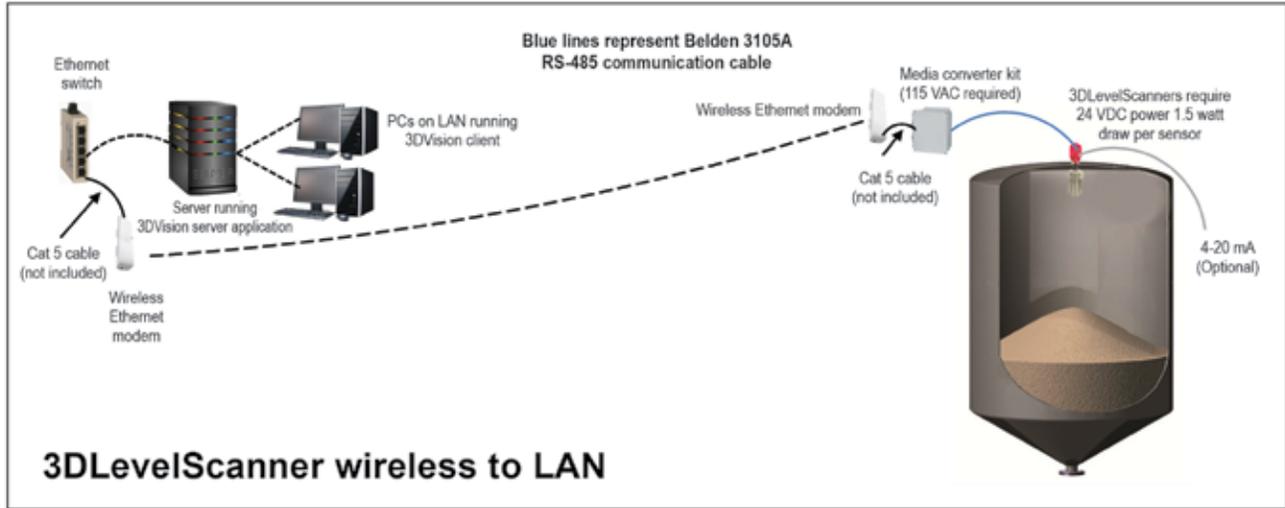


Assembled



The 3DLevelScanner optional neck extensions are used when it's necessary to lower the horn assembly of the Scanner below obstacles through a thick roof or on a raised socket. The neck extensions in 1', 2', 4', 6', and 10' lengths allow the 3DLevelScanner to be effectively installed without any degradation in performance or the need for special structural alterations or adapters.

3DLevelScanner – Wireless Configurations



Description	Price	Part No.
3DLEVELSCANNER PARTS		
3DLevelScanner electronic card ATEX/FM type "RL"	\$2,048.00	530-0798
3DLevelScanner electronic card ATEX/FM type "S"	\$2,048.00	530-0611
3DLevelScanner electronic card ATEX/FM type "M"	\$2,048.00	530-0612
3DLevelScanner electronic card ATEX/FM type "MV"	\$2,048.00	530-0613
3DLevelScanner electronic card ATEX/FM type "ML"	\$2,048.00	530-0737
3DLevelScanner electronic card ATEX/FM type "MVL"	\$2,048.00	530-0736
3DLevelScanner transducer	\$2,000.00	530-0705

Mark X if none											
						X				X	X
Sample											
NCR-80.	IX	C	SD	A	H	X	A	N	A	X	X

Display
 X: X - No Bindisc - No Window (1, 2, 3)
 A: A - Bindisc Top Mounted with Window (1, 2, 3)
 F: F - No Bindisc - With Window Top (2, 3)
 B: B - Bindisc Side Mounted with Window (1, 2)

Connection
 N: N - Two 1/2" NPT / blind plug (1, 2, 3)
 Q: Q - Two 1/2" NPT / without plug (1, 2, 3)

Housing
 A: A - Aluminium single chamber (1, 2)
 K: K - Plastic single chamber (1, 2)
 8: 8 - Stainless steel single chamber (1, 2)
 R: R - Plastic double chamber (1, 2)
 V: V - Stainless steel single chamber (Cast) (1, 2, 3)
 W: W - Stainless steel double chamber (1, 2, 3)
 D: D - Aluminium double chamber (1, 2, 3)

Output
 H: H - Two wire 4-20mA (1, 2, 3)
 U: U - Four-wire Modbus (1, 2, 3)
 B: B - Four-wire 4-20mA (1, 2, 3)
 I: I - Four-wire 4-20mA (1, 2, 3)
 P: P - Two-wire Profibus PA (1, 2, 3)

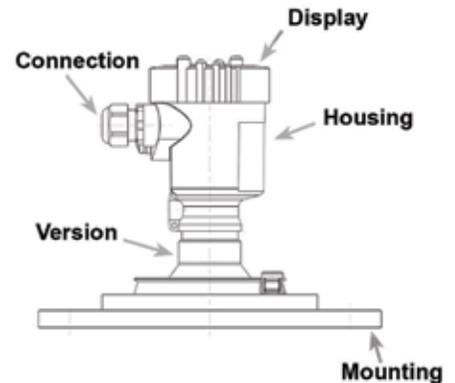
Seal
 C: C - No Seal (1)
 D: D - FKM (1)
 E: E - EPDM (1)
 F: F - EPDM (2, 3)
 A: A - FKM (2, 3)
 B: B - FKM (2, 3)

Mounting
 XX: XX - No Mounting (1)
 XC: XC - 6.7" Mounting Strap (1)
 XD: XD - 11.8" Mounting Strap (1)
 AU: AU - 3" PP-GF30 Flange (1)
 AL: AL - 4" PP-GF30 Flange (1)
 AO: AO - 8" PP-GF30 Flange (1)
 AM: AM - 6" PP-GF30 Flange (1)
 TD: TD - Thread 1 1/2" NPT PN20, ASME B1.20.1 / 316L (2)
 FD: FD - Flange 3" 150lb FF, ASME / 316 / 316L (3)
 FE: FE - Flange 4" 150lb FF, ASME / 316 / 316L (3)
 FF: FF - Flange 6" 150lb FF, ASME / 316 / 316L (3)
 SD: SD - Swiveling holder with flange 4" 150lb / 316 / 316L (3)
 SE: SE - Swiveling holder with flange 6" 150lb / 316 / 316L (3)
 SF: SF - Swiveling holder with flange 8" 150lb / 316 / 316L (3)

Version
 B: B - Plastic horn antenna (1)
 T: T - Thread (2)
 C: C - Metal jacketed lens antenna (3)

Approvals
 CC: CC - CSA (IS) Class I (1, 3)
 CD: CD - CSA (XP-AIS) Class I (1, 3)
 CE: CE - CSA (XP) Class I (1, 3)
 CR: CR - CSA (DIP) Class II (1, 3)
 IX: IX - Designed for unclassified area (1, 2, 3)
 FC: FC - FM (IS) Class I, II, III (1, 3)
 FD: FD - FM (XP-AIS) Class I (1, 3)
 FR: FR - FM (DIP) Class II (1, 3)
 FE: FE - FM (XP) Class I (1, 3)

Power Pac
 NCR-80.: 80 GHz Radar



1: Plastic
 2: Thread
 3: Metal



NCR-80

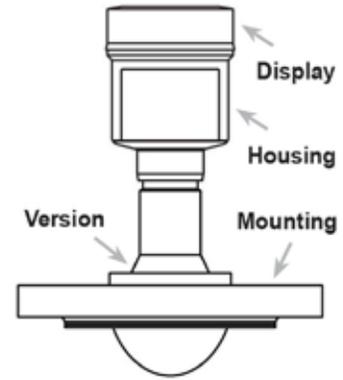
Non-contact radar continuously measures the level of powders, granules, solids, or liquids in a vessel. Reliable and precise in high dust, 80 GHz non-contact radar excels in powders and solids in tall and narrow vessels. Pulse radar transmitters using a lower frequency are more commonly used in liquids and perform in diverse tank shapes and environmental conditions.

Description	Price	CODE	Part No.
BASE UNIT			
80 GHz Radar Level Sensor	\$0.00	NCR-80.	
APPROVALS			
Approvals: CC - CSA (IS) Class I, II, III, Div 1, Groups A, B, C, D, E, F, G	\$375.00	CC	
Approvals: CD - CSA (XP-AIS) Class I, Div 1, Groups A, B, C, D, (DIP-AIS) Class II, III Div 1, Groups E, F, G	\$375.00	CD	
Approvals: CE - CSA (XP) Class I, Div 1, Groups A, B, C, D, (DIP) Class II, III Div 1, Groups E, F, G	\$375.00	CE	
Approvals: CR - CSA (DIP) Class II, DIV 1 Groups E, F, G	\$375.00	CR	
Approvals: IX - Designed for unclassified area, non-EX environment	\$0.00	IX	
Approvals: FC - FM (IS) Class I, II, III, Div 1, Groups A, B, C, D, E, F, G	\$375.00	FC	
Approvals: FD - FM (XP-AIS) Class I, Div 1, Groups A, B, C, D, (DIP-AIS) Class II, III Div 1, Groups E, F, G	\$375.00	FD	
Approvals: FR - FM (DIP) Class II, DIV 1 Groups E, F, G	\$375.00	FR	
Approvals: FE - FM (XP) Class I, Div 1, Groups A, B, C, D, (DIP) Class II, III Div 1, Groups E, F, G	\$375.00	FE	
VERSION			
Version: B - Plastic horn antenna / PP	\$2,240.00	B	
Version: T - Thread with integrated horn antenna/PEEK	\$2,340.00	T	
Version: C - Metal jacketed lens antenna with rinsing air connection / PEEK	\$2,339.00	C	
Version: U - Threaded with encapsulated antenna with second line defense for XP units	\$2,340.00	U	
MOUNTING			
Mounting: XX - No Mounting	\$0.00	XX	
Mounting: XC - Mounting strap, length: 6.7 inches (170mm) / 316L	\$83.00	XC	
Mounting: XD - Mounting strap, length: 11.8 inches (300 mm) / 316L	\$103.00	XD	
Mounting: AU - Adapter flange 3" 150lb FF, ASME / PP-GF30	\$180.00	AU	
Mounting: AL - Adapter flange 4" 150lb FF, ASME / PP-GF30	\$184.00	AL	
Mounting: AO - Adapter flange 8" 150lb FF, ASME / PP-GF30	\$339.00	AO	
Mounting: AM - Adapter flange 6" 150lb FF, ASME / PP-GF30	\$245.00	AM	
Mounting: TD - Thread 1½" NPT PN20, ASME B1.20.1 / 316L	\$416.00	TD	
Mounting: FD - Flange 3" 150lb FF, ASME / 316 / 316L	\$320.00	FD	
Mounting: FE - Flange 4" 150lb FF, ASME / 316 / 316L	\$320.00	FE	
Mounting: FF - Flange 6" 150lb FF, ASME / 316 / 316L	\$473.00	FF	
Mounting: SD - Swiveling holder with flange 4" 150lb / 316 / 316L	\$473.00	SD	
Mounting: SE - Swiveling holder with flange 6" 150lb / 316 / 316L	\$536.00	SE	

Description	Price	CODE	Part No.
Mounting: SF - Swiveling holder with flange 8" 150lb / 316 / 316L	\$583.00	SF	
SEAL			
Seal: C - No Seal - PP / Process Temperature: -40°F to +176°F (80°C)	\$0.00	C	
Seal: D - FKM (SHS FPM 70C3 GLT) and PP / Process Temperature: -40°F to +176°F (80°C)	\$0.00	D	
Seal: E - EPDM (COG AP310) and PP / Process Temperature: -40°F to +176°F (80°C)	\$0.00	E	
Seal: F - EPDM (COG AP302) and PEEK (suitable for foodstuffs / pharmaceuticals) / Process Temperature: -40°F to 266°F (130°C)	\$24.00	F	
Seal: A - FKM (SHS FPM 70C3 GLT) and PEEK / Process Temperature: -40°F to +266°F (130°C)	\$0.00	A	
Seal: B - FKM (SHS FPM 70C3 GLT) and PEEK / Process Temperature: -40°F to +392°F (200°C)	\$950.00	B	
OUTPUT			
Output: H - Two wire 4-20mA / HART®; 12-35V DC	\$0.00	H	
Output: U - Four-wire Modbus (Requires Dual Chamber Housing); 8-30V DC	\$162.00	U	
Output: B - Four-wire 4-20mA / HART®; 90-253 VAC; 50/60 Hz (Requires Dual Chamber Housing)	\$240.00	B	
Output: I - Four-wire 4-20mA / HART®; 9.6-48V DC; 20-42V AC (Requires Dual Chamber Housing)	\$240.00	I	
Output: P - Two-wire Profibus PA	\$364.00	P	
HOUSING			
Housing: A - Aluminium single chamber / IP66/IP68 (0.2bar)	\$0.00	A	
Housing: K - Plastic single chamber / IP66/IP67	\$0.00	K	
Housing: 8 - Stainless steel single chamber (electropolished) / IP66/IP68 (0.2 bar)	\$96.00	8	
Housing: R - Plastic double chamber / IP66/IP67	\$50.00	R	
Housing: V - Stainless steel single chamber (precision casting) / IP66/IP68 (0.2 bar)	\$307.00	V	
Housing: W - Stainless steel double chamber / IP66/IP67	\$1,210.00	W	
Housing: D - Aluminium double chamber / IP66/IP67	\$129.00	D	
CONNECTION			
Cable Entry: N - Two ½" NPT / blind plug in one opening	\$0.00	N	
Cable Entry: Q - Two ½" NPT / without plug in either opening	\$0.00	Q	
DISPLAY			
Display: X - Without inspection window or BinDisc	\$0.00	X	
Display: A - Bindisc top mounted with display window	\$236.00	A	
Display: F - Top mounted BinDisc with inspection window	\$0.00	F	
Display: B - Side mounted BinDisc with window	\$236.00	B	
MOUNTING PLATES			
Self-aligning carbon steel flange with 1.5" Nylon ball and socket flange provides vertical connection for tanks with a radius dome or angled roof top, provides easy aiming flexibility. Based on a 7" bolt pattern.	\$195.00		416-0720
0° mounting plate with 4" ANSI flange finished in a gray powder-coat, includes gasket and bolts.	\$149.00		730-0747
10° mounting plate with 4" ANSI flange finished in a gray powder-coat, includes gasket and bolts.	\$149.00		730-0756
30° mounting plate with 4" ANSI flange finished in a gray powder-coat, includes gasket and bolts.	\$149.00		730-0748
45° mounting plate with 4" ANSI flange finished in a gray powder-coat, includes gasket and bolts.	\$199.00		730-0776
15" spoolpiece, 4" NPT flange each end	\$150.00		730-0785
ACCESSORIES			
Data Cable - ft. of Allen-Bradley blue hose RS-485 data cable, 20 AWG shielded twin axial, twisted pair, low capacitance, Belden #9463 or equivalent	\$1.80/ft.		398-0090

Description	Price	CODE	Part No.
BinDisc stand-alone interface enables push-button sensor setup and configuration. The BinDisc can be integrated into the sensor housing and is installed and visible under the housing cover for easy viewing. BinDisc simplifies setup and provides continuous, at-a-glance, operational status of the sensor. This handy interface aids in on-site system diagnosis.	\$236.00		771-0053

Mark X if none											
						X				X	X
Sample											
NCR-84.	IX	F	GP	I	H	X	A	N	F	X	X



Display
 X: X - No Bindisc - No Window (1, 2, 3, 4, 5, 6, 7, 8)
 A: A - Bindisc Top Mounted with Window (1, 2, 3, 4, 5, 6, 7, 8)
 F: F - No Bindisc - With Window (1, 2, 3, 4, 5, 6, 7, 8)

Connection
 N: N - Two 1/2" NPT / blind plug in one opening (1, 2, 3, 4, 5, 6, 7, 8)
 Q: Q - Two 1/2" NPT / without plug in either opening (1, 2, 3, 4, 5, 6, 7, 8)

Housing
 A: A - Aluminium single chamber / IP66/IP68 (0.2bar) (1, 2, 3, 4, 5, 6, 7, 8)
 K: K - Plastic single chamber / IP66/IP67 (1)

Output
 H: H - Two wire 4-20mA / HART®; 12-35V DC (1, 2, 3, 4, 5, 6, 7, 8)

Seal
 C: C - No Seal - PP / Process Temperature: -40°F to +176°F (80°C) (1)
 D: D - FKM (SHS FPM 70C3 GLT) and PP / Process Temperature: -40°F to +176°F (80°C) (1, 2)
 E: E - EPDM (COG AP310) and PP / Process Temperature: -40°F to +176°F (80°C) (1, 2)
 A: A - FKM (SHS FPM 70C3 GLT) and PEEK / Process Temperature: -40°F to +266°F (130°C) (3, 4)
 B: B - FKM (SHS FPM 70C3 GLT) and PEEK / Process Temperature: -40°F to +392°F (200°C) (3, 4)
 I: I - PTFE / PTFE / Process Temperature: -40°F to +266°F (130°C) (5, 6, 7, 8)
 J: J - PTFE / PTFE / Process Temperature: -40°F to +392°F (200°C) (5, 6, 7, 8)

Mounting
 XC: XC - Mounting strap, length: 6.7 inches (170mm) / 316L (1, 2)
 XD: XD - Mounting strap, length: 11.8 inches (300 mm) / 316L (1, 2)
 AU: AU - Adapter flange 3" 150lb FF, ASME / PP-GF30 (1, 2)
 AL: AL - Adapter flange 4" 150lb FF, ASME / PP-GF30 (1, 2)
 AM: AM - Adapter flange 6" 150lb FF, ASME / PP-GF30 (1, 2)
 AO: AO - Adapter flange 8" 150lb FF, ASME / PP-GF30 (1, 2)
 XX: XX - No Mounting (1, 2)
 TB: TB - Thread 3/4" NPT PN20, ASME B1.20.1 / 316L (3, 4)
 TD: TD - Thread 1-1/2" NPT PN20, ASME B1.20.1 / 316L (3, 4)
 GI: GI - Flange 2" 150lb RF, ASME B16.5 / 316/316L (5, 6)
 GJ: GJ - Flange 2" 300lb RF, ASME B16.5 / 316/316L (5, 6)
 HG: HG - Flange 2" 600lb RF, ASME B16.5 / 316/316L (5, 6)
 HM: HM - Flange 2-1/2" 150lb RF, ASME B16.5 / 316/316L (5, 6)
 GK: GK - Flange 2-1/2" 300lb RF, ASME B16.5 / 316/316L (5, 6)
 GM: GM - Flange 3" 150lb RF, ASME B16.5 / 316/316L (5, 6)
 GN: GN - Flange 3" 300lb RF, ASME B16.5 / 316/316L (5, 6)
 HQ: HQ - Flange 3" 600lb RF, ASME B16.5 / 316/316L (5, 6)
 GP: GP - Flange 4" 150lb RF, ASME B16.5 / 316/316L (5, 6)
 GQ: GQ - Flange 4" 300lb RF, ASME B16.5 / 316/316L (5, 6)
 GR: GR - Flange 4" 600lb RF, ASME B16.5 / 316/316L (5, 6)
 GS: GS - Flange 5" 150lb RF, ASME B16.5 / 316/316L (5, 6)
 GT: GT - Flange 5" 300lb RF, ASME B16.5 / 316/316L (5, 6)
 GU: GU - Flange 6" 150lb RF, ASME B16.5 / 316/316L (5, 6)
 GV: GV - Flange 6" 300lb RF, ASME B16.5 / 316/316L (5, 6)
 GW: GW - Flange 8" 150lb RF, ASME B16.5 / 316/316L (5, 6)
 GY: GY - Flange 8" 300lb RF, ASME B16.5 / 316/316L (5, 6)
 CA: CA - Clamp 2" PN16 (ø64mm) DIN32676, ISO2852 / 316L (7, 8)
 CB: CB - Clamp 3" PN10 (ø91mm) DIN32676, ISO2852 / 316L (7, 8)

Version
 B: B - Plastic horn antenna (1)
 D: D - Plastic horn for XP units (2)
 T: T - Threaded with integrated horn antenna (3)
 U: U - Flanged with encapsulated antenna for XP units (4)
 F: F - Flanged with encapsulated antenna (5)
 G: G - Flanged with encapsulated antenna for XP units (6)
 H: H - Hygienic fitting with encapsulated antenna (7)
 I: I - Hygienic fitting with encapsulated antenna for XP units (8)

Approvals
 CC: CC - CSA (IS) Class I, II, III, Div 1, Groups A, B, C, D, E, F, G (1, 3, 5, 7)
 CE: CE - CSA (XP) Class I, Div 1, Groups A, B, C, D, (DIP) Class II, III Div 1, Groups E, F, G (2, 4, 6, 8)
 CR: CR - CSA (DIP) Class II, DIV 1 Groups E, F, G (1, 3, 5, 7)
 IX: IX - Designed for unclassified area, non-EX environment, general purpose FM/CSA/CE (1, 3, 5, 7)
 FE: FE - FM (XP) Class I, Div 1, Groups A, B, C, D, (DIP) Class II, III Div 1, Groups E, F, G (2, 4, 6, 8)

Power Pac
 NCR-84.: NCR-84 Liquid Radar

- 1 - Plastic
- 2 - Plastic XP
- 3 - Threaded
- 4 - Threaded XP
- 5 - Flanged
- 6 - Flanged XP
- 7 - Hygienic
- 8 - Hygienic XP



NCR-84

The NCR-84 is an 80 GHz radar used for continuous, non-contact level measurement in liquids. It is designed specifically for precise, reliable measurement in challenging conditions specific to liquids such as excessive steam, vapor, condensation, or surface foam. The signal is focused in a very narrow beam angle, allowing for precise aiming to avoid obstructions in the tank such as agitators, mixers, fittings, or heating coils. The NCR-84 is also appropriate for use in tanks with turbulent product surfaces, viscous media, and pastes.

Description	Price	CODE	Part No.
BASE UNIT			
NCR-84 Liquid Radar	\$0.00	NCR-84.	
APPROVALS			
Approvals: CC - CSA (IS) Class I, II, III, Div 1, Groups A, B, C, D, E, F, G	\$375.00	CC	
Approvals: CE - CSA (XP) Class I, Div 1, Groups A, B, C, D, (DIP) Class II, III Div 1, Groups E, F, G	\$375.00	CE	
Approvals: CR - CSA (DIP) Class II, DIV 1 Groups E, F, G	\$375.00	CR	
Approvals: IX - Designed for unclassified area, non-EX environment, general purpose FM/CSA/CE	\$0.00	IX	
Approvals: FE - FM (XP) Class I, Div 1, Groups A, B, C, D, (DIP) Class II, III Div 1, Groups E, F, G	\$375.00	FE	
VERSION			
Version: B - Plastic horn antenna	\$2,885.00	B	
Version: D - Plastic horn antenna with second line defense for XP units	\$3,029.00	D	
Version: T - Threaded with integrated horn antenna	\$3,635.00	T	
Version: U - Threaded with encapsulated antenna with second line defense for XP units	\$3,779.00	U	
Version: F - Flanged with encapsulated antenna	\$4,162.00	F	
Version: G - Flanged with encapsulated antenna with second line defense for XP units	\$4,303.00	G	
Version: H - Hygienic fitting with encapsulated antenna	\$4,162.00	H	
Version: I - Hygienic fitting with encapsulated antenna with second line defense for XP units	\$4,303.00	I	
MOUNTING			
Mounting: XD - Mounting strap, length: 11.8 inches (300 mm) / 316L	\$103.00	XD	
Mounting: AU - Adapter flange 3" 150lb FF, ASME / PP-GF30	\$180.00	AU	
Mounting: AL - Adapter flange 4" 150lb FF, ASME / PP-GF30	\$184.00	AL	
Mounting: AM - Adapter flange 6" 150lb FF, ASME / PP-GF30	\$245.00	AM	
Mounting: AO - Adapter flange 8" 150lb FF, ASME / PP-GF30	\$339.00	AO	
Mounting: XX - No Mounting	\$0.00	XX	
Mounting: TB - Thread 3/4" NPT PN20, ASME B1.20.1 / 316L	\$0.00	TB	
Mounting: TD - Thread 1-1/2" NPT PN20, ASME B1.20.1 / 316L	\$121.00	TD	
Mounting: GI - Flange 2" 150lb RF, ASME B16.5 / 316/316L	\$146.00	GI	
Mounting: GJ - Flange 2" 300lb RF, ASME B16.5 / 316/316L	\$332.00	GJ	
Mounting: HG - Flange 2" 600lb RF, ASME B16.5 / 316/316L	\$585.00	HG	
Mounting: HM - Flange 2-1/2" 150lb RF, ASME B16.5 / 316/316L	\$195.00	HM	
Mounting: GK - Flange 2-1/2" 300lb RF, ASME B16.5 / 316/316L	\$538.00	GK	

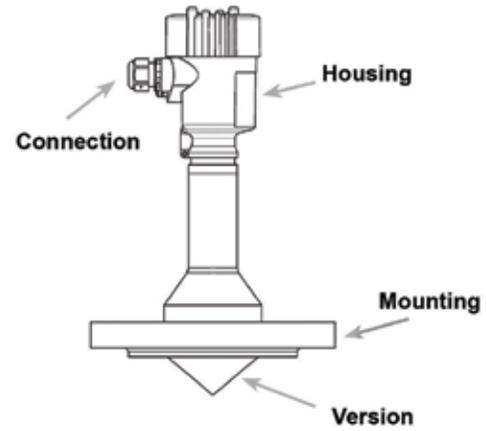
Description	Price	CODE	Part No.
Mounting: GM - Flange 3" 150lb RF, ASME B16.5 / 316/316L	\$235.00	GM	
Mounting: GN - Flange 3" 300lb RF, ASME B16.5 / 316/316L	\$580.00	GN	
Mounting: HQ - Flange 3" 600lb RF, ASME B16.5 / 316/316L	\$842.00	HQ	
Mounting: GP - Flange 4" 150lb RF, ASME B16.5 / 316/316L	\$332.00	GP	
Mounting: GQ - Flange 4" 300lb RF, ASME B16.5 / 316/316L	\$687.00	GQ	
Mounting: GR - Flange 4" 600lb RF, ASME B16.5 / 316/316L	\$1,090.00	GR	
Mounting: GS - Flange 5" 150lb RF, ASME B16.5 / 316/316L	\$998.00	GS	
Mounting: GT - Flange 5" 300lb RF, ASME B16.5 / 316/316L	\$1,427.00	GT	
Mounting: GU - Flange 6" 150lb RF, ASME B16.5 / 316/316L	\$998.00	GU	
Mounting: GV - Flange 6" 300lb RF, ASME B16.5 / 316/316L	\$1,427.00	GV	
Mounting: GW - Flange 8" 150lb RF, ASME B16.5 / 316/316L	\$2,274.00	GW	
Mounting: GY - Flange 8" 300lb RF, ASME B16.5 / 316/316L	\$5,596.00	GY	
Fitting: CA - Clamp 2" PN16 (ø64mm) DIN32676, ISO2852 / 316L	\$0.00	CA	
Fitting: CB - Clamp 3" PN10 (ø91mm) DIN32676, ISO2852 / 316L	\$165.00	CB	
SEAL			
Seal: C - No Seal - PP / Process Temperature: -40°F to +176°F (80°C)	\$0.00	C	
Seal: D - FKM (SHS FPM 70C3 GLT) and PP / Process Temperature: -40°F to +176°F (80°C)	\$0.00	D	
Seal: E - EPDM (COG AP310) and PP / Process Temperature: -40°F to +176°F (80°C)	\$0.00	E	
Seal: A - FKM (SHS FPM 70C3 GLT) and PEEK / Process Temperature: -40°F to +266°F (130°C)	\$0.00	A	
Seal: B - FKM (SHS FPM 70C3 GLT) and PEEK / Process Temperature: -40°F to +392°F (200°C)	\$227.00	B	
Seal: I - PTFE / PTFE / Process Temperature: -40°F to +266°F (130°C)	\$0.00	I	
Seal: J - PTFE / PTFE / Process Temperature: -40°F to +392°F (200°C)	\$227.00	J	
OUTPUT			
Output: H - Two wire 4-20mA / HART®; 12-35V DC	\$0.00	H	
HOUSING			
Housing: A - Aluminium single chamber / IP66/IP68 (0.2bar)	\$0.00	A	
Housing: K - Plastic single chamber / IP66/IP67	\$0.00	K	
CONNECTION			
Cable Entry: N - Two ½" NPT / blind plug in one opening	\$0.00	N	
Cable Entry: Q - Two ½" NPT / without plug in either opening	\$0.00	Q	
DISPLAY			
Display: X - Without inspection window or BinDisc	\$0.00	X	
Display: A - Bindisc top mounted with display window BinDisc stand alone interface enables push-button sensor setup and configuration. The BinDisc can be integrated into the sensor housing and is installed and visible under the housing cover for easy viewing. BinDisc simplifies setup and provides continuous, at-a-glance, operational status of The sensor. This handy interface aids in on-site system diagnosis.	\$236.00	A	
Display: F - No BinDisc with inspection window	\$0.00	F	
MOUNTING PLATES			
4" Variable flange seal for NCR-80 up to 8°	\$165.00		771-0058
3" Variable flange seal for NCR-80 up to 8°	\$145.00		771-0057
0° mounting plate with 4" ANSI flange finished in a gray powder-coat, includes gasket and bolts.	\$149.00		730-0747
10° mounting plate with 4" ANSI flange finished in a gray powder-coat, includes gasket and bolts.	\$149.00		730-0756

Description	Price	CODE	Part No.
30° mounting plate with 4" ANSI flange finished in a gray powder-coat, includes gasket and bolts.	\$149.00		730-0748
Self-aligning carbon steel flange with 1.5" Nylon ball and socket flange provides vertical connection for tanks with a radius dome or angled roof top, provides easy aiming flexibility. Based on a 7" bolt pattern.	\$195.00		416-0720
GRMP-6 - 0° 1.5" NPT Powder coated carbon steel mounting plate with half coupling	\$39.00		730-0298

Description	Price	Part No.
MOUNTING PLATES		
GRMP-8 - 0° 1-1/2" NPT Stainless steel mounting plate with half coupling	\$89.00	730-0469

Description	Price	Part No.
MOUNTING PLATES		
GRMP-11 - 5° 1.5" NPT Powder coated carbon steel mounting plate with half coupling	\$42.00	730-0501
GRMP-12 - 10° 1.5" NPT Powder coated carbon steel mounting plate with half coupling	\$48.00	730-0502
GRMP-18 - 30° 1.5" NPT Powder coated carbon steel mounting plate with half coupling	\$80.00	730-0663
Swivel mount with 1.5" NPT female connector. Can swivel in one direction up to 40°.	\$35.00	SWVL-40
ACCESSORIES		
Tri-clover style, quick disconnect clamp for 2" sanitary fitting	\$74.00	215-0151
Tri-Clover 2" Stainless steel welding ferrule flange	\$52.00	175-0230
Gasket for Tri-clover 2" clamp connection	\$4.30	280-0084
POWER SUPPLY		
PSDC-1 - 24 VDC / 30 VA, NEMA 1 din rail mounted power supply	\$111.00	399-0022
PSDC-4 - 24 VDC / 30 VA, NEMA 4X enclosure mounted power supply	\$183.00	730-0577
PSDC-5 Power Supply 90-264 VAC converted to 24 VDC 1 A	\$42.00	399-0030

Mark X if none									
								X	X
Sample									
NCR-30.	XX	N	AI	H	H	N	A	X	X



Display
 X: X - No Bindisc - No Window
 A: A - Bindisc Top Mounted with Window
 F: F - No Bindisc - With Window Top
 B: B - Bindisc Side Mounted with Window

Connection
 N: N - Two 1/2" NPT / blind plug
 Q: Q - Two 1/2" NPT / without plug

Housing
 H: H - Aluminium single chamber
 S: S - Aluminium double chamber
 V: V - Stainless steel single chamber (Cast)
 8: 8 - Stainless steel single chamber
 W: W - Stainless steel double chamber

Output
 H: H - Two wire 4-20mA
 7: 7 - Four-wire Modbus
 I: I - Four-wire 4-20mA
 B: B - Four-wire 4-20mA

Mounting
 CA: CA - 2" Hygenic Clamp
 CB: CB - 3" Hygenic Clamp
 AE: AE - 2" 150 lb RF
 AI: AI - 3" 150 lb RF
 AK: AK - 4" 150 lb RF
 AM: AM - 6" 150 lb RF
 AN: AN - 8" 150 lb RF

Version
 N: N - Hygenic

Approvals
 XX: XX - Designed for unclassified area
 UX: UX - FM (NI) Class I
 UF: UF - FM (IS) Class I, II, III
 UG: UG - FM (XP-IS) Class I, II, III
 UD: UD - FM (XP) Class I
 KX: KX - CSA (NI) Class I
 KF: KF - CSA (IS) Class I, II, III
 KG: KG - CSA (XP-IS) Class I, II, II

Power Pac
 NCR-30.: 26 GHz Radar

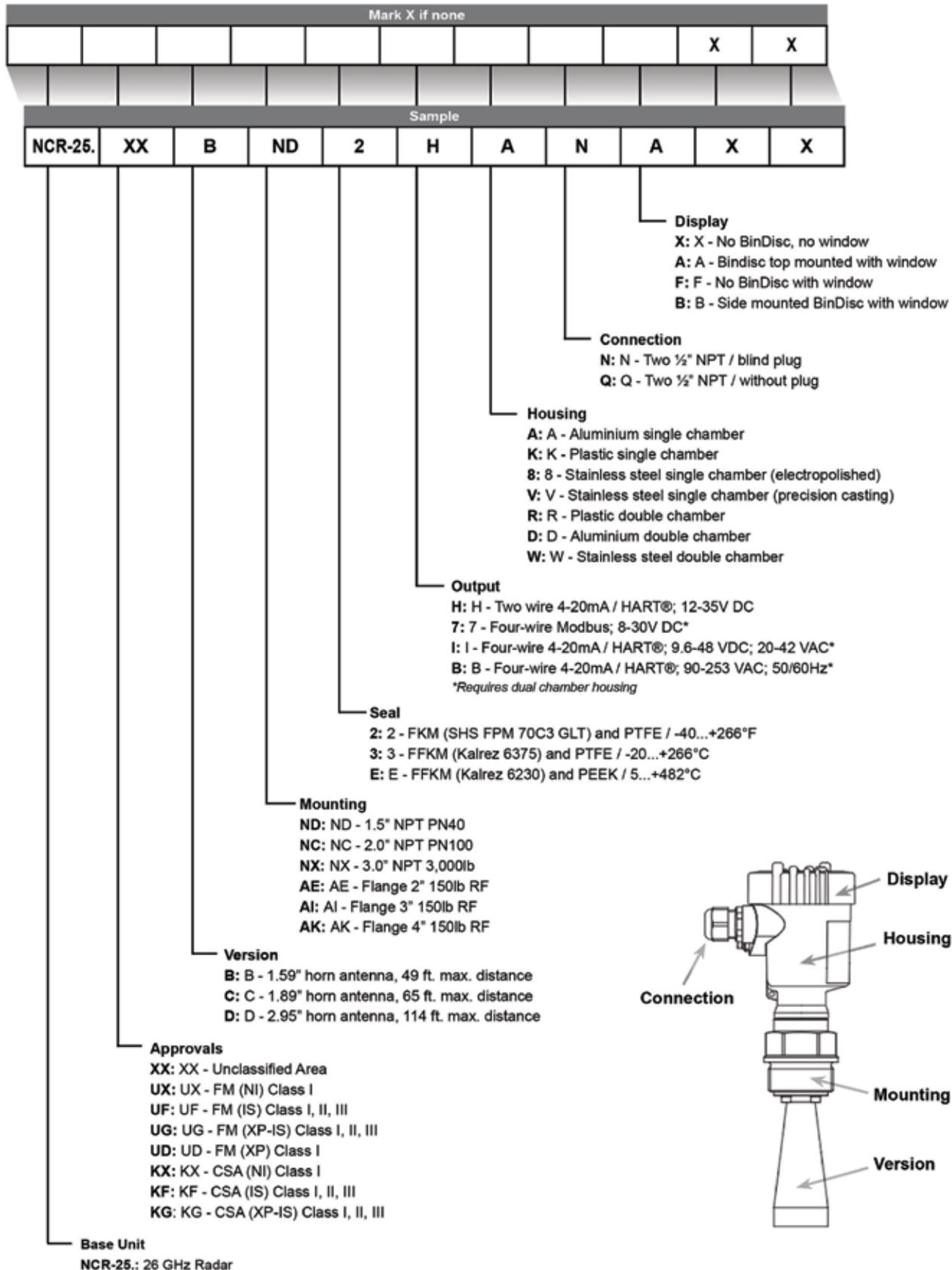


NCR-30

The BinMaster NCR-30 non-contact radar level sensor continuously measures liquids contained in vessels up to 114 feet tall. The NCR-30 is for use in aggressive materials such as asphalt or syrups. It is also appropriate for sanitary environments such as human or animal food processing or pharmaceuticals. NCR-30 is compatible with the BinView® web application and Binventory® software for simple access to inventory data from a phone, tablet, or desktop PC.

Description	Price	CODE	Part No.
BASE UNIT			
26 GHz radar level sensor	\$0.00	NCR-30.	
APPROVALS			
Approvals: XX - Designed for unclassified area, non-EX environment	\$0.00	XX	
Approvals: UX - FM (NI) Class I, DIV 2 Groups A, B, C, D	\$134.00	UX	
Approvals: UF - FM (IS) Class I, II, III, Div 1, Groups A, B, C, D, E, F	\$134.00	UF	
Approvals: UG - FM (XP-IS) Class I, II, III Div 1, Groups A, B, C, D, E, F, G	\$134.00	UG	
Approvals: UD - FM (XP) Class I, Div 1, Groups A, B, C, D, (DIP) Class II, III Div 1, Groups E, F, G	\$134.00	UD	
Approvals: KX - CSA (NI) Class I, DIV 2 Groups A, B, C, D	\$134.00	KX	
Approvals: KF - CSA (IS) Class I, II, III, Div 1, Groups A, B, C, D, E, F	\$134.00	KF	
Approvals: KG - CSA (XP-IS) Class I, II, III Div 1, Groups A, B, C, D, E, F, G	\$134.00	KG	
VERSION			
Version: H - Hygienically encapsulated horn antenna / PTFE / -40...+200°C	\$4,058.00	N	
MOUNTING			
Fitting: CA - Clamp 2" PN16 (ø64mm) DIN32676, ISO2852 / 316L	\$0.00	CA	
Fitting: CB - Clamp 3" PN10 (ø91mm) DIN32676, ISO2852 / 316L	\$165.00	CB	
Mounting: AE - Flange 2" 150lb RF, ASME B16.5 / 316/316L	\$146.00	AE	
Mounting: AI - Flange 3" 150lb RF, ASME B16.5 / 316/316L	\$235.00	AI	
Mounting: AK - Flange 4" 150lb RF, ASME B16.5 / 316/316L	\$332.00	AK	
Mounting: AM - Flange 6" 150lb RF, ASME B16.5 / 316/316L	\$998.00	AM	
Mounting: AN - Flange 8" 150lb RF, ASME B16.5 / 316/316L	\$2,274.00	AN	
OUTPUT			
Output: H - Two wire 4-20mA / HART®; 12-35V DC	\$0.00	H	
Output: 7 - Four-wire Modbus (Requires Dual Chamber Housing); 8-30V DC	\$162.00	7	
Output: I - Four-wire 4-20mA / HART®; 9.6-48V DC; 20-42V AC (Requires Dual Chamber Housing)	\$240.00	I	
Output: B - Four-wire 4-20mA / HART®; 9.6-48V DC; 20-42V AC (Requires Dual Chamber Housing)	\$240.00	B	
HOUSING			
Housing: H - Aluminium single chamber / IP66/IP68 (0.2bar)	\$141.00	H	
Housing: S - Aluminium double chamber / IP66/IP67	\$267.00	S	
Housing: V - Stainless steel single chamber (precision casting) / IP66/IP68 (0.2 bar)	\$307.00	V	
Housing: 8 - Stainless steel single chamber (electropolished) / IP66/IP68 (0.2 bar)	\$96.00	8	

Description	Price	CODE	Part No.
Housing: W - Stainless steel double chamber / IP66/IP67	\$1,210.00	W	
CONNECTION			
Cable Entry: N - Two 1/2" NPT / blind plug in one opening	\$0.00	N	
Cable Entry: Q - Two 1/2" NPT / without plug in either opening	\$0.00	Q	
DISPLAY			
Display: X - Without inspection window or BinDisc	\$0.00	X	
Display: A - Bindisc top mounted with display window	\$236.00	A	
Display: F - Top mounted BinDisc with inspection window	\$0.00	F	
Display: B - Side mounted BinDisc with window	\$236.00	B	
ACCESSORIES			
BinDisc stand-alone interface enables push-button sensor setup and configuration. The BinDisc can be integrated into the sensor housing and is installed and visible under the housing cover for easy viewing. BinDisc simplifies setup and provides continuous, at-a-glance, operational status of the sensor. This handy interface aids in on-site system diagnosis.	\$236.00		771-0053





NCR-25

The BinMaster NCR-25 non-contact radar level sensor continuously measures liquids contained in vessels up to 114 feet tall. The NCR-25 is best suited for water, fuels, oils, and other freely-flowing, clean liquids. It is compatible with the BinView® web application and Binventory® software for simple access to inventory data from a phone, tablet, or desktop PC.

Description	Price	CODE	Part No.
BASE UNIT			
26 GHz radar level sensor for liquids	\$0.00	NCR-25.	
APPROVALS			
Approvals: XX - Unclassified area, non-EX environment, general purpose FM/CSA/CE	\$0.00	XX	
Approvals: UX - FM (NI) Class I, DIV 2 Groups A, B, C, D	\$131.00	UX	
Approvals: UF - FM (IS) Class I, II, III, Div 1, Groups A, B, C, D, E, F	\$131.00	UF	
Approvals: UG - FM (XP-IS) Class I, II, III Div 1, Groups A, B, C, D, E, F, G	\$131.00	UG	
Approvals: UD - FM (XP) Class I, Div 1, Groups A, B, C, D, (DIP) Class II, III Div 1, Groups E, F, G	\$131.00	UD	
Approvals: KX - CSA (NI) Class I, DIV 2 Groups A, B, C, D	\$144.00	KX	
Approvals: KF - CSA (IS) Class I, II, III, Div 1, Groups A, B, C, D, E, F	\$144.00	KF	
Approvals: KG - CSA (XP-IS) Class I, II, III Div 1, Groups A, B, C, D, E, F, G	\$144.00	KG	
VERSION			
Version: B - 316L horn antenna 1.59" - 49 ft. max. measurement, 20° beam angle	\$3,097.00	B	
Version: C - 316L horn antenna 1.89" - 65 ft. max. measurement, 15° beam angle	\$3,097.00	C	
Version: D - 316L horn antenna 2.95" - 114 ft. max. measurement, 10° beam angle	\$3,097.00	D	
MOUNTING			
Mounting: ND - 1.5" NPT PN40	\$0.00	ND	
Mounting: NC - 2.0" NPT PN100	\$108.00	NC	
Mounting: NX - 3.0" NPT 3,000lb	\$424.00	NX	
Mounting: AE - Flange 2" 150lb RF, ASME B16.5 / 316/316L	\$254.00	AE	
Mounting: AI - Flange 3" 150lb RF, ASME B16.5 / 316/316L	\$366.00	AI	
Mounting: AK - Flange 4" 150lb RF, ASME B16.5 / 316/316L	\$366.00	AK	
SEAL			
Seal: 2 - FKM (SHS FPM 70C3 GLT) and PTFE / -40...+266°F	\$0.00	2	
Seal: 3 - FFKM (Kalrez 6375) and PTFE / -20...+266°C	\$258.00	3	
Seal: E - FFKM (Kalrez 6230) and PEEK / 5...+482°C	\$317.00	E	
OUTPUT			
Output: H - Two wire 4-20mA / HART®; 12-35V DC	\$0.00	H	
Output: 7 - Four-wire Modbus (Requires Dual Chamber Housing); 8-30V DC	\$159.00	7	
Output: I - Four-wire 4-20mA / HART®; 9.6-48 VDC; 20-42 VAC (Requires Dual Chamber Housing)	\$259.00	I	
Output: B - Four-wire 4-20mA / HART®; 90-253 VAC; 50/60Hz (Requires Dual Chamber Housing)	\$259.00	B	

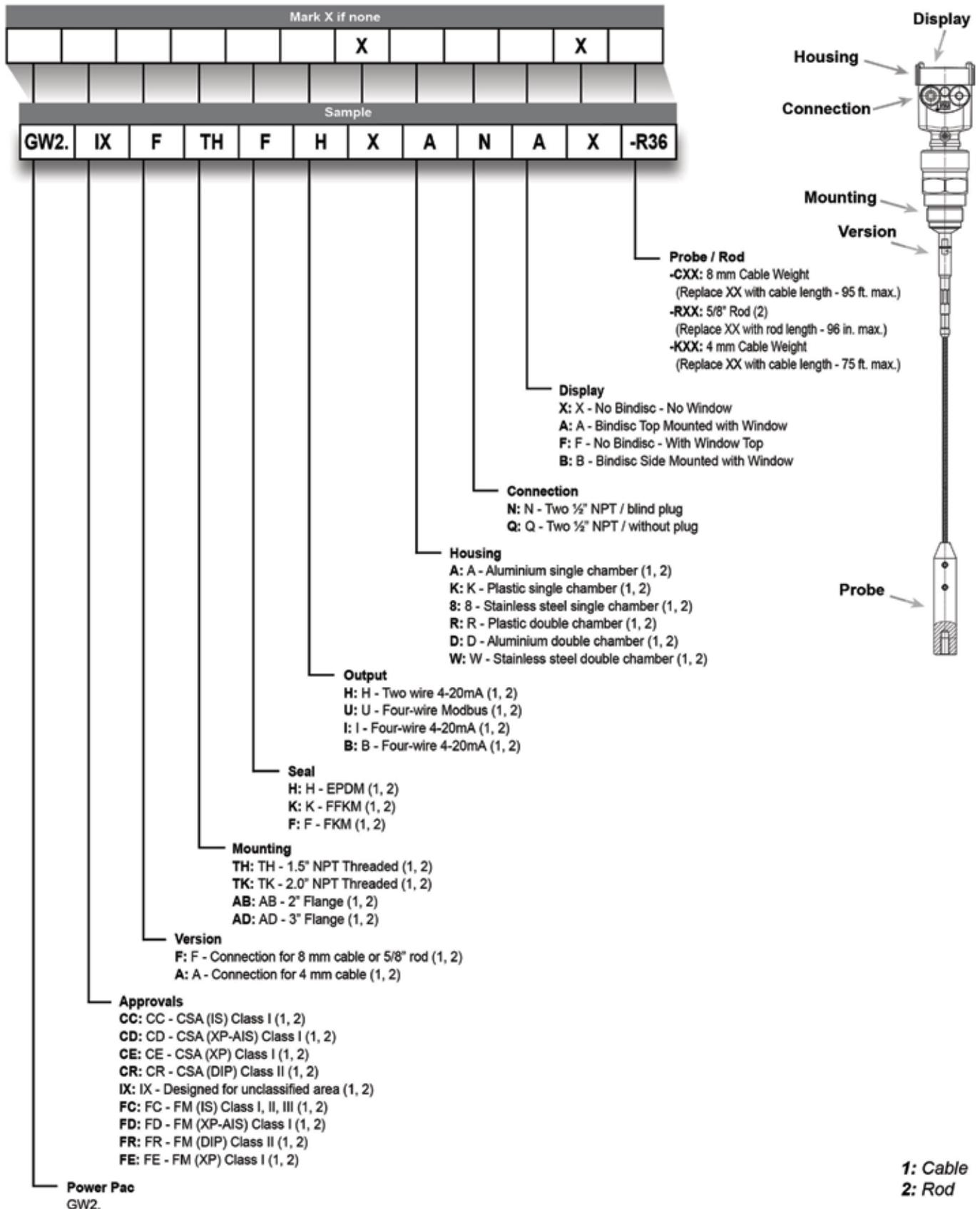
Description	Price	CODE	Part No.
HOUSING			
Housing: A - Aluminium single chamber / IP66/IP68 (0.2bar)	\$0.00	A	
Housing: K - Plastic single chamber / IP66/IP67	\$0.00	K	
Housing: 8 - Stainless steel single chamber (electropolished) / IP66/IP68 (0.2 bar)	\$105.00	8	
Housing: V - Stainless steel single chamber (precision casting) / IP66/IP68 (0.2 bar)	\$332.00	V	
Housing: R - Plastic double chamber / IP66/IP67	\$51.00	R	
Housing: D - Aluminium double chamber / IP66/IP67	\$138.00	D	
Housing: W - Stainless steel double chamber / IP66/IP67	\$1,306.00	W	
CONNECTION			
Cable Entry: N - Two 1/2" NPT / blind plug in one opening	\$0.00	N	
Cable Entry: Q - Two 1/2" NPT / without plug in either opening	\$0.00	Q	
DISPLAY			
X - Without inspection window or BinDisc	\$0.00	X	
Display: A - Bindisc top mounted with display window	\$236.00	A	
Display: F - No BinDisc with inspection window	\$0.00	F	
Display: B - Side mounted BinDisc with window	\$236.00	B	
MOUNTING PLATES			
Self-aligning carbon steel flange with 1.5" Nylon ball and socket flange provides vertical connection for tanks with a radius dome or angled roof top, provides easy aiming flexibility. Based on a 7" bolt pattern.	\$195.00		416-0720
SSMP-1 - Self-aligning carbon steel 3" ball and socket flange provides vertical connection for tanks with a radius dome or angled roof top, provides easy aiming flexibility.	\$170.00		416-0367
BinDisc stand-alone interface enables push-button sensor setup and configuration. The BinDisc can be integrated into the sensor housing and is installed and visible under the housing cover for easy viewing. BinDisc simplifies setup and provides continuous, at-a-glance, operational status of the sensor. This handy interface aids in on-site system diagnosis.	\$236.00		771-0053



NCR-21

The NCR-21 is a low-cost non-contact liquid level measurement sensor for water, wastewater and other liquids stored in small vessels up to 26 feet. Ideal for pump stations and overflow monitoring, it is also suitable for measuring various fats, liquid ammonia, and other food additives. Its flood-proof IP 68 enclosure ensures a maintenance-free continuous operation. It is easily set up and monitored using integrated Bluetooth for wireless communication with data access via a smartphone, tablet or PC. The NCR-21 is also compatible with either the BinView web application or Binventory software options for monitoring levels from multiple sensor types or sites.

Description	Price	CODE	Part No.
BASE UNIT			
NCR-21 Liquid Radar		NCR-21.	
VERSION			
Version: X Standard	\$950.00	X	
POWER SUPPLY			
PSDC-1 - 24 VDC / 30 VA, NEMA 1 din rail mounted power supply	\$111.00		399-0022
PSDC-4 - 24 VDC / 30 VA, NEMA 4X enclosure mounted power supply	\$183.00		730-0577
PSDC-5 Power Supply 90-264 VAC converted to 24 VDC 1 A	\$42.00		399-0030





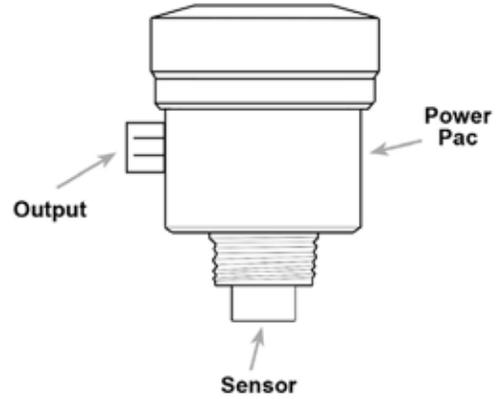
Guided Wave Radar

Guided wave radar provides highly accurate, continuous level measurement utilizing time domain reflectometry (TDR) to measure the distance, level, and volume of material contained in bins, tanks, and silos. It performs reliably and is immune to dust, humidity, temperature, pressure, and bulk density changes as well as noise that might be present when filling or emptying the vessel.

Description	Price	CODE	Part No.
POWER PAC			
GWR-2000 Guided Wave Radar	\$0.00	GW2.	
APPROVALS			
Approvals: CC - CSA (IS) Class I, II, III, Div 1, Groups A, B, C, D, E, F, G	\$375.00	CC	
Approvals: CD - CSA (XP-AIS) Class I, Div 1, Groups A, B, C, D, (DIP-AIS) Class II, III Div 1, Groups E, F, G	\$375.00	CD	
Approvals: CE - CSA (XP) Class I, Div 1, Groups A, B, C, D, (DIP) Class II, III Div 1, Groups E, F, G	\$375.00	CE	
Approvals: CR - CSA (DIP) Class II, DIV 1 Groups E, F, G	\$375.00	CR	
Approvals: IX - Designed for unclassified area, non-EX environment	\$0.00	IX	
Approvals: FC - FM (IS) Class I, II, III, Div 1, Groups A, B, C, D, E, F, G	\$375.00	FC	
Approvals: FD - FM (XP-AIS) Class I, Div 1, Groups A, B, C, D, (DIP-AIS) Class II, III Div 1, Groups E, F, G	\$375.00	FD	
Approvals: FR - FM (DIP) Class II, DIV 1 Groups E, F, G	\$375.00	FR	
Approvals: FE - FM (XP) Class I, Div 1, Groups A, B, C, D, (DIP) Class II, III Div 1, Groups E, F, G	\$375.00	FE	
VERSION			
Version: A - Threaded connection to sensor for 4 mm cable	\$1,831.00	A	
Version: F - Threaded connection to sensor for 8 mm cable or 5/8" rod	\$2,099.00	F	
MOUNTING			
Mounting: TH - 1.5" NPT PN40, ASME B1.20.1 / 316L	\$332.00	TH	
Mounting: TK - 2.0" NPT PN40, ASME B1.20.1 / 316L	\$1,040.00	TK	
Mounting: AB - 2" 150lb RF, ASME B16.5 / 316/316L	\$726.00	AB	
Mounting: AD - 3" 150lb RF, ASME B16.5 / 316/316L	\$841.00	AD	
Mounting: AG - 4" 150lb RF, ASME B16.5 / 316/316L	\$841.00	AG	
SEAL			
Seal: H - EPDM (A+P 75.5 / KW75F) / -40°F to +302°F (150°C)	\$0.00	H	
Seal: K - FFKM (Kalrez 6375) / -4°F (20°C) to +392°F (200°C)	\$314.00	K	
Seal: F - FKM (SHS FPM 70C3 GLT) / -40°F to +302°F (150°C)	\$0.00	F	
OUTPUT			
Output: H - Two wire 4-20mA / HART®; 12-35V DC	\$0.00	H	
Output: U - Four-wire Modbus (Requires Dual Chamber Housing); 8-30V DC	\$457.00	U	
Output: I - Four-wire 4-20mA / HART®; 9.6-48V DC; 20-42V AC (Requires Dual Chamber Housing)	\$275.00	I	
Output: B - Four-wire 4-20mA / HART®; 9.6-48V DC; 20-42V AC (Requires Dual Chamber Housing)	\$275.00	B	

Description	Price	CODE	Part No.
HOUSING			
Housing: A - Aluminium single chamber / IP66/IP68 (0.2bar)	\$0.00	A	
Housing: K - Plastic single chamber / IP66/IP67	\$0.00	K	
Housing: 8 - Stainless steel single chamber (electropolished) / IP66/IP68 (0.2 bar)	\$96.00	8	
Housing: R - Plastic double chamber / IP66/IP67	\$50.00	R	
Housing: D - Aluminium double chamber / IP66/IP67	\$129.00	D	
Housing: W - Stainless steel double chamber / IP66/IP67	\$1,210.00	W	
CONNECTION			
Cable Entry: N - Two ½" NPT / blind plug in one opening	\$0.00	N	
Cable Entry: Q - Two ½" NPT / without plug in either opening	\$0.00	Q	
DISPLAY			
Display: X - Without inspection window or BinDisc	\$0.00	X	
Display: A - Bindisc top mounted with display window	\$236.00	A	
Display: F - Top mounted BinDisc with inspection window	\$0.00	F	
Display: B - Side mounted BinDisc with window	\$236.00	B	
PROBE / ROD			
ft. single flexible 8 mm diameter 316 stainless steel cable, with counter weight (95 ft. maximum)	\$187.00 + \$2.45/ft.	-CXX	
in. solid 5/8" diameter 316 stainless steel sensing rod (96 in. maximum)	\$87.00 + 1.50/in.	-RXX	
ft. single flexible 4 mm diameter 316 stainless steel cable, with counter weight (75 ft. maximum)	\$187.00 + \$3.65/ft.	-KXX	
MOUNTING PLATES			
GRMP-8 - 0° 1-1/2" NPT Stainless steel mounting plate with half coupling	\$89.00		730-0469
MOUNTING PLATE			
GRMP-18 - 30° 1.5" NPT Powder coated carbon steel mounting plate with half coupling	\$64.00		730-0633

Mark X if none					
Sample					
SS300.	045	M	P	P	X



Options

- H: High Temp -40° to 266° F, High Pressure 70 psi (5 bar)
- R: Relay output (SS-300 mini only)

Sensor Material

- P: Standard - 3" (1" mini) -40° to 40° F, (-40° to 60° C), 29 psi (2 bar), (1, 2, 3, 4)
- T: High Temp - 3" (1" mini) -40° to 266° F, (-40° to 130° C), 29 psi (2 bar), (1, 2, 3, 4)
- 2: Sanitary - 2" -40° to 266° F, (-40° to 130° C), 29 psi (2 bar), (2, 4, 5)
- 1: Sanitary - 1.5" -40° to 266° F, (-40° to 130° C), 29 psi (2 bar), (2, 4, 5)

Body Material

- P: PVC

Output

- H: Analog 4-20 mA (1)
- M: Modbus RS-485 & Analog 4-20 mA (2, 3, 4)

Frequency	Range	Resolution	Beam Angle	
45 - 45 kHz:	1.0-60 ft (0.30-18.2M)	0.27"(68mm)	9°	(1, 2, 3, 4)
52 - 52 kHz:	0.9-50 ft (0.27-15.2M)	0.23"(68mm)	12°	(1, 2, 3, 4)
70 - 70 kHz:	0.8-30 ft (0.24-9.1M)	0.13"(68mm)	12°	(1, 2, 3, 4)
80 - 80 kHz:	0.7-20 ft (0.21-6.1M)	0.088"(68mm)	12°	(1, 2, 3, 4)
81 - 81 kHz:	0.6-16 ft (0.18-4.9M)	0.07"(68mm)	12°	(1, 2, 3, 4)
148- 148 kHz:	0.4-9 ft (0.12-2.7M)	0.04"(68mm)	12°	(1, 2, 3, 4)
82 - 80 kHz Mini:	0.7-20 ft (0.21-6.1M)	0.088"(68mm)	12°	(1, 2, 3, 4)
149 - 148 kHz Mini:	0.4-9 ft (0.12-2.7M)	0.04"(68mm)	12°	(1, 2, 3, 4)

Power Pac

- SS200.: SS200 SmartSonic 12-28 VDC Loop Powered
- SS300.: SS300 SmartSonic 12-30 VDC
- SS400.: SS400 SmartSonic 115 VAC
- SS430.: SS430 SmartSonic 230 VAC

- 1: SS200
- 2: SS300
- 3: SS400
- 4: SS430
- 5: 70, 80, 81, 148 kHz only



SmartSonic

The SmartSonic ultrasonic level sensor is designed for continuous non-contact level measuring and monitoring of tanks, bins, and silos. Its transmitter features a high efficiency, narrow beam and uses a wide frequency bandwidth to enhance operation in difficult applications. The SmartSonic is designed to perform particularly well in harsh environments where vessel temperatures vary, using a temperature sensor to automatically compensate for temperature changes. Its transmitter range allows for level readings from 0.4 to 90 feet in liquid applications.

Description	Price	CODE	Part No.
POWER PAC			
SmartSonic 12-28 VDC Loop Powered	\$918.00	SS200.	
SmartSonic 12-30 VDC	\$932.00	SS300.	
SmartSonic 115 VAC	\$1,012.00	SS400.	
SmartSonic 230 VAC	\$1,012.00	SS430.	
FREQUENCY			
Range: 45 kHz: 1.0-60 ft (0.30-18.2M) Resolution: 0.27" (6.8 mm) Beam Angle: 9° Mounting: 3" NPT	\$304.00	45	
Range: 52 kHz: 0.9-50 ft (0.27-15.2M) Resolution: 0.23" (6.7 mm) Beam Angle: 12° Mounting: 2" or 3" NPT	\$267.00	52	
Range: 70 kHz: 0.8-30 ft (0.24-9.1M) Resolution: 0.13" (3.4 mm) Beam Angle: 12° Mounting: 2" or 3" NPT	\$122.00	70	
Range: 80 kHz: 0.7-20 ft (0.21-6.1M) Resolution: 0.088" (2.2 mm) Beam Angle: 12° 2" or 3" NPT	\$81.00	80	
Range: 81 kHz: 0.6-16 ft (0.18-4.9M) Resolution: 0.07" (1.8 mm) Beam Angle: 12° Mounting: 1.5" or 3" NPT	\$63.00	81	
Range: 148 kHz: 0.4-9 ft (0.12-2.7M) Resolution: 0.04" (0.98 mm) Beam Angle: 12° Mounting: 1" or 3" NPT	\$0.00	148	
Range: Mini 80 kHz: 0.7-20 ft (0.21-6.1M) Resolution: 0.088" (2.2 mm) Beam Angle: 12° Mounting: 1.5" Ferrule	\$109.00	82	

Description	Price	CODE	Part No.
Range: Mini 148 kHz: 0.4-9 ft (0.12-2.7M) Resolution: 0.04" (0.98 mm) Beam Angle: 12° Mounting: 1" NPT	\$0.00	149	
OUTPUT			
Analog: 4-20 mA	\$0.00	H	
Analog: 4-20 mA	\$0.00	M	
BODY MATERIAL			
Standard PVC	\$0.00	P	
SENSOR MATERIAL			
Type: 3" Standard PVC (1" Mini) Temperature: -40° to 40° F, (-40° to 60° C) PSI: 29 psi (2 bar)	\$0.00	P	
Type: 3" High Temp Teflon (1" Mini) Temperature: -40° to 266° F, (-40° to 130° C) PSI: 29 psi (2 bar)	\$580.00	T	
Type: Sanitary 2" connection (70, 80, 81, 148 kHz only) Temperature: -40° to 266° F, (-40° to 130° C) PSI: 29 psi (2 bar)	\$205.00	2	
Type: Sanitary 1.5" connection (70, 80, 81, 148 kHz only) Temperature: -40° to 266° F, (-40° to 130° C) PSI: 29 psi (2 bar)	\$205.00	1	
OPTIONS			
High temperature, high pressure -40° to 266° F, (-40° to 130°), 70 psi (5 bar)	\$605.00	H	
Relay output (SS-300 mini only)	\$157.00	R	
MOUNTING PLATES			
SSMP-1 - Self-aligning carbon steel 3" ball and socket flange provides vertical connection for tanks with a radius dome or angled roof top, provides easy aiming flexibility.	\$170.00		416-0367



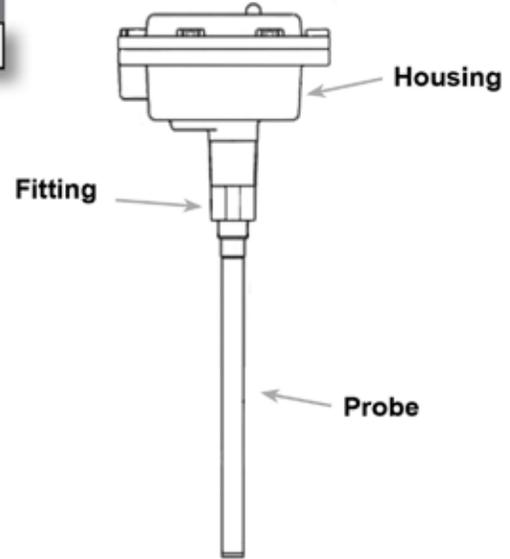
Laser

A laser level measurement sensor is used for level control, plugged chute detection, and monitoring buildup. This non-contact device measures in a tight beam, making it suitable for use in very narrow vessels, constrained spaces, or in applications where the beam must be precisely targeted to avoid walls or other structures. Laser can be pointed at an outlet to ensure timely replenishment of material or mounted near the sidewall to detect buildup.

Description	Price	CODE	Part No.
BATTERY-OPERATED LASER			
SPL-200 & FVL-200 require BinCloud Gateway with LoRa communications			
SPL-200 Laser level sensor, 98 ft. maximum measurement, wireless LoRa output, includes standard -20°F to 120°F (-30°F to 65°F) battery.	\$1,795.00		SPL-200
FVL-200 Laser level sensor, 35 ft. maximum measurement, Wireless LoRa output, includes standard -20°F to 120°F battery. Must be used with FeedView software.	\$600.00		FVL-200
MOUNTING PLATES FOR BATTERY-OPERATED LASER			
Swivel mount with 1.5" NPT female connector. Can swivel in one direction up to 40°.	\$35.00		SWVL-40
LASER LEVEL TRANSMITTER			
LL-100 - Laser Level sensor, 1 ft to 160 ft (0.3 m to 50 m) range with 0.4 in (10 mm) resolution and +/- 1" (25 mm) accuracy. Non-visible laser beam with <1° beam angle. 12-28 VDC power input with 4 to 20 mA (3wire) output. Can be used in -4°F (-20°C) to 140°F (60°C) environments in an IP66 enclosure.	\$2,428.00		730-5176
MOUNTING PLATES FOR LL-100			
LL-900 Mounting Flange - ANSI (DN100 PN6/PN10) 4" 150# with <10° swivel angle.	\$260.00		258-0113
LL-910 Mounting Flange - ANSI (DN65 PN6) 2.5" 150# with <10° swivel angle.	\$216.00		258-0114
BINCLOUD GATEWAY			
See BinCloud Gateway configuration tree under Inventory Management Programs			
BINCLOUD GATEWAY BASE UNIT			
BC-GW-100 BinCloud Gateway collects sensor data and sends it to the BinCloud platform on the web. The BC-GW-100 consists of:	\$595.00	BC-GW-100.	
BINCLOUD GATEWAY INPUTS			
Inputs - 4-20 mA 4 wire - Four inputs	\$140.00	2	
Inputs - RS-485	\$30.00	3	
Inputs - TCP/IP	\$0.00	4	
Inputs - LoRa	\$70.00	5	
BINCLOUD GATEWAY OUTPUTS			
Outputs - Ethernet Only	\$0.00	E	
Outputs - Cellular and Ethernet	\$150.00	C	
Outputs - WiFi only	\$0.00	W	
BINCLOUD GATEWAY POWER SUPPLY			
Power Supply - 110 VAC	\$0.00	A	
Power Supply - 24 VDC	\$0.00	B	

Description	Price	CODE	Part No.
BINCLOUD GATEWAY CABLE			
Cable - Standard wall socket pigtail for 110V outlet, 6ft in length	\$12.00	1	
Cable - No power supply cable	\$0.00	X	
BINCLOUD GATEWAY ANTENNA			
Antenna - Standard range antenna	\$0.00	S	
Antenna - Long range antenna	\$30.00	L	

Mark X if none		
Sample		
DD1000.1	FA	11P27



Probes (1, 2)

- 03P71:** P71 - Unshielded, Bare Stainless Steel Probe - 3 In.
- 04P28:** P28 - Unshielded, Bare Stainless Steel Probe - 4 In.
- 06P62:** P62 - Unshielded, Bare Stainless Steel Probe - 6 In.
- 11P27:** P27 - Unshielded, Bare Stainless Steel Probe - 10.63 In.
- 18P29:** P29 - Unshielded, Bare Stainless Steel Probe - 18 In.
- 24P30:** P30 - Unshielded, Bare Stainless Steel Probe - 24 In.
- 30P57:** P57 - Unshielded, Bare Stainless Steel Probe - 30 In.
- 36P56:** P56 - Unshielded, Bare Stainless Steel Probe - 36 In.
- 48P31:** P31 - Unshielded, Bare Stainless Steel Probe - 48 In.
- 72P32:** P32 - Unshielded, Bare Stainless Steel Probe - 72 In.
- 96P33:** P33 - Unshielded, Bare Stainless Steel Probe - 96 In.
- 11P39:** P39 - Bare Stainless Steel Probe - 10.19"
(Teflon insert for high temperature)
- 06P40:** P40 - Bare Stainless Steel Probe - 6"
(Teflon insert for high temperature)
- XXP34:** P34 - Custom Length Unshielded, Bare Stainless Steel Probe - XX in.

Fittings (1, 2)

- FA:** FA - 3/4" NPT SS fitting for bare & Delrin sleeved
- FB:** FB - 1.25" NPT SS fitting bare & Delrin sleeved
- FC:** FC - 1" Sanitary SS fitting for 5/8" bare & Delrin

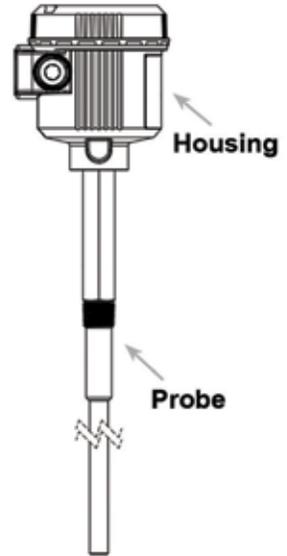
Remote Housing

- DD1000.1:** Dust Detect 1000 115 VAC
- DD1000.2:** Dust Detect 1000 230 VAC

Description	Price	CODE	Part No.
POWER PACS			
DD1000-115VAC - Dust Detect power pac single piece, triboelectric broken bag detector, 115 VAC	\$1,839.00	DD1000.1	
DD1000-230VAC - Dust Detect power pac single piece, triboelectric broken bag detector, 230 VAC	\$1,839.00	DD1000.2	
FITTINGS			
FA - 3/4" NPT stainless steel fitting for bare and Delrin sleeved probes	\$56.00	FA	175-0083
FB - 1-1/4" NPT stainless steel fitting for bare and Delrin sleeved probes	\$72.00	FB	175-0082
FC - 1" Food grade stainless steel fitting for 5/8" bare and Delrin sleeved probes, and for use with tri-clover style clamp (not 3-A)	\$69.00	FC	175-0093
PROBES			
P71 - Unshielded, bare stainless steel probe - 3"	\$91.00	03P71	530-0199
P28 - Unshielded, bare stainless steel probe - 4"	\$91.00	04P28	530-0267
P62 - Unshielded, bare stainless steel probe - 6"	\$91.00	06P62	530-0202
P27 - Unshielded, bare stainless steel probe - 10.63"	\$96.00	11P27	530-0198
P29 - Unshielded, bare stainless steel probe - 18"	\$103.00	18P29	530-0268
P30 - Unshielded, bare stainless steel probe - 24"	\$122.00	24P30	530-0234
P57 - Unshielded, bare stainless steel probe - 30"	\$133.00	30P57	530-0265
P56 - Unshielded, bare stainless steel probe - 36"	\$150.00	36P56	530-0266
P31 - Unshielded, bare stainless steel probe - 48"	\$162.00	48P31	530-0235
P32 - Unshielded, bare stainless steel probe - 72"	\$181.00	72P32	530-0236
P33 - Unshielded, bare stainless steel probe - 96"	\$195.00	96P33	530-0237
P39 - 10.19" Bare stainless steel probe with Teflon insert for high temperatures.	\$158.00	11P39	530-0227
P40 - 6" Bare stainless steel probe with Teflon insert for high temperatures.	\$151.00	06P40	530-0864
P34 - Custom length, unshielded, bare stainless steel probe. Maximum length 96"	\$210.00	XXP34	

DUST ALERT - 3000

Mark X if none									
									N4
Sample									
DD300.	S	2	L12	M1	T1	1	X	N4	G



Area Classification
G: Area Classification: Ordinary/ General Purpose Only

Probe Insulation (use X if none)
C: Insulation: Teflon-Coated Probe

Process Pressure
1: 10 PSI Max.

Process Temperature
T1: Standard Temp: -13°F to 250°F (-25°C to 121°C) Max
T2: High Temp: -13°F to 450°F (-25°C to 232°C) Max.
T3: High-High Temp: -13°F to 500°F (-25°C to 260°C) Max.

Mounting
M1: 0.5-Inch: NPT Male, 0.5 in.
M3: 1.5-Quick-Clamp: 1.5 in. Tri-Clamp

Probe Length
L02: Probe-L1.5: Length - 1.5 in (3.8 cm)
L03: Probe-L3: Length - 3.0 in (7.6 cm)
L06: Probe-L6: Length - 6.0 in (15.2 cm)
L12: Probe-L12: Length - 12.0 in (30.5 cm) - Stock
L18: Probe-L18: Length - 18.0 in (45.7 cm)
L24: Probe-L24: Length - 24.0 in (60.9 cm) - Stock
L30: Probe-L30: Length - 30 in (76.2 cm)
L36: Probe-L36: Length - 36 in (91.4 cm)

Resolution
2: Standard Resolution: 5.0pA, Range 0 to 5000 pA
1: High Resolution: 0.5pA, Range 0 to 5000 pA

Ambient Temperature
S: Standard Ambient Temp: -13°F to 158°F (-25°C to 70°C)
L: Low Ambient Temp: -40°F to 158°F (-40°C to 70°C)

Base Unit
DD310.: DD-3000: 2-Wire Loop Powered
DD305.: DD-3000: 2 Relays 20 to 250 VAC/VDC
DD300.: DD-3000: 2 Relays 18 to 60 VDC



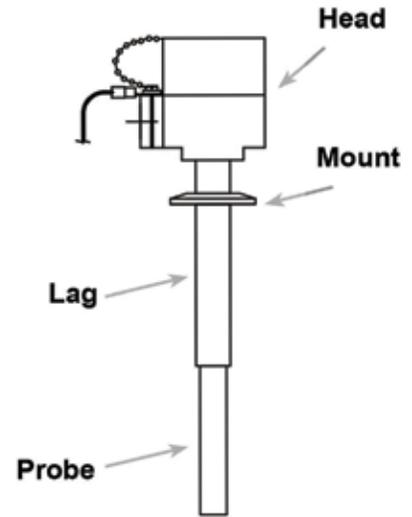
Dust Alert - 3000

The Dust Alert with integrated electronics and sensing probe utilizes inductive electrification technology to detect and alert—via an alarm relay or 4-20 mA output—when dust emissions exceed a preset point. This extremely sensitive method minimizes the influence of sensor contamination, particulate velocity change, or temperature drift. Designed to save time, reduce maintenance, and prevent downtime, the Dust Alert DD-3000 is ideal for baghouse leak detection and can be installed in stacks, ducts, or pipes.

Description	Price	CODE	Part No.
BASE UNIT			
DD-3000-T: 2-Wire loop powered with 4-20 mA output, in a NEMA 4X IP65 Aluminum enclosure	\$1,639.00	DD310.	
DD-3000-A: 20 to 250 VAC/VDC dual relay output, in a NEMA 4X IP65 Aluminum enclosure	\$1,639.00	DD305.	
DD-3000-A: 18 to 60 VDC dual relay output, in a NEMA 4X IP65 Aluminum enclosure	\$1,309.00	DD300.	
AMBIENT TEMPERATURE			
Ambient Temp: -13°F to 158°F (-25°C to 70°C)	\$0.00	S	
Ambient Temp: -40°F to 158°F (-40°C to 70°C)	\$330.00	L	
RESOLUTION			
Standard Resolution: 5.0pA, Range 0 to 5000 pA	\$0.00	2	
High Resolution: 0.5pA, Range 0 to 5000 pA	\$435.00	1	
PROBE LENGTH			
Probe: Length - 1.5 in (3.8 cm)	\$0.00	L02	
Probe: Length - 3.0 in (7.6 cm)	\$0.00	L03	
Probe: Length - 6.0 in (15.2 cm)	\$0.00	L06	
Probe: Length - 12.0 in (30.5 cm)	\$105.00	L12	
Probe: Length - 18.0 in (45.7 cm)	\$138.00	L18	
Probe: Length - 24.0 in (60.9 cm)	\$138.00	L24	
Probe: Length - 30 in (76.2 cm)	\$193.00	L30	
Probe: Length - 36 in (91.4 cm)	\$193.00	L36	
MOUNTING			
Mount: NPT Male, 0.5 in.	\$(22.00)	M1	
Mount 1.5 in. Tri-Clamp	\$105.00	M3	
PROCESS TEMPERATURE			
Standard Process Temp: -13°F to 250°F (-25°C to 121°C) Max.	\$0.00	T1	
High Process Temp: -13°F to 450°F (-25°C to 232°C) Max.	\$330.00	T2	
High-High-Process Temp: -13°F to 500°F (-25°C to 260°C) Max.	\$660.00	T3	
PROCESS PRESSURE			
10 PSI Max.	\$0.00	1	
PROBE INSULATION			
Insulation: Teflon-coated probe	\$220.00	C	
Insulation: None	\$0.00	X	

Description	Price	CODE	Part No.
AREA CLASSIFICATION			
Area Classification: Ordinary/General Purpose Only (CE Approved)	\$0.00	G	
FITTING			
1.5" X 3.0" 304 SS process fitting	\$67.00		175-0265

Mark X if none						
Sample						
PS10.	G	L10	T2	1	M1	S



Cable
S: PS 10 Particulate Sensor Cable
D: PS 10 Particulate Sensor Daisy Chain Cable
XX: ft. Cable Length (max. XX ft.)

Mounting
M1: NPT Male, 0.5 in.
M2: NPT Male, 0.75 in.
M3: 1.5 in. Tri-Clamp
M4: 2.0 in. Tri-Clamp
M6: 3.0 in. Tri-Clamp

Process Pressure
1: Standard: 10 PSI Max.
6: High: 50 PSI Max.

Process Temperature
T2: Standard Temp: -40°F to 250°F (-40°C to 120°C) Max.
T4: High Temp: -40°F to 450°F (-40°C to 232°C) Max.
T8: High-High Temp: -40°F to 800°F (-40°C to 426°C) Max.

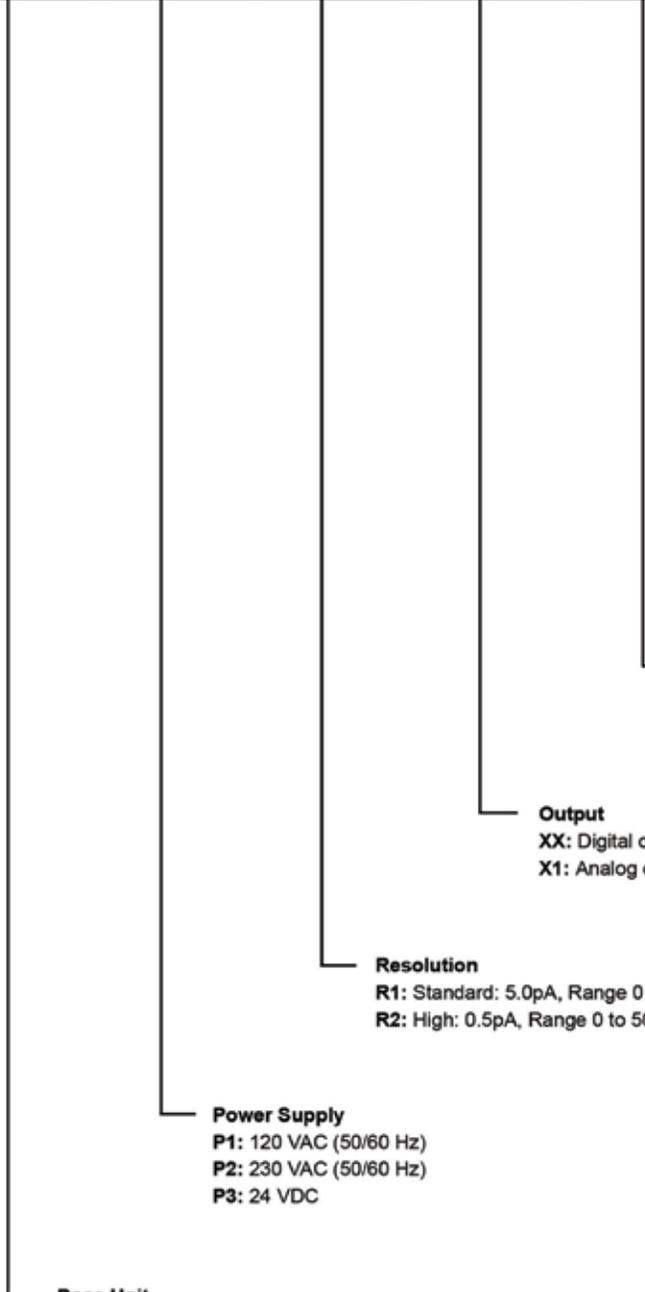
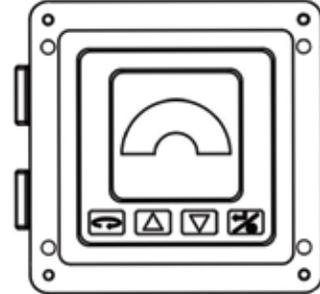
Probe Length
L02: Probe-L1.5: Length - 1.5 in (3.8 cm)
L03: Probe-L3: Length - 3.0 in (7.6 cm)
L06: Probe-L5: Length - 5.0 in (12.7 cm)
L10: Probe-L10: Length - 10 in (25.4 cm)
L15: Probe-L15: Length - 15 in (38.1 cm)
L20: Probe-L20: Length - 20 in (50.9 cm)
L30: Probe-L30: Length - 30 in (76.2 cm)
L36: Probe-L36: Length - 36 in (91.4 cm)

Area Classification
G: Ordinary
A2: Hazloc
A3: HazLoc IS

Base Unit
PS10.: PS-10 Particulate Sensor

Description	Price	CODE
BASE UNIT		
PS-10 Particulate Sensor in NEMA 4X housing to connect probe to BM-30LGX monitor	\$1,309.00	PS10.
AREA CLASSIFICATION		
Area Classification: Ordinary/General Purpose Only (CE Approved)	\$0.00	G
Area Classification: Hazardous Location, Intrinsically Safe, CSA Approval, Class I, II, & III, Division I & II, All Groups	\$693.00	A2
Area Classification: Hazardous Location, Intrinsically Safe, CSA Approval, Class I, II, & III, Division II, Groups A-D, F, G	\$693.00	A3
PROBE LENGTH		
Probe: Length - 1.5 in (3.8 cm) Teflon-coated stainless steel probe	\$0.00	L02
Probe: Length - 3.0 in (7.6 cm) Teflon-coated stainless steel probe	\$0.00	L03
Probe: Length - 5.0 in (12.7 cm) Teflon-coated stainless steel probe	\$0.00	L05
Probe: Length - 10 in (25.4 cm) Teflon-coated stainless steel probe	\$0.00	L10
Probe: Length - 15 in (38.1 cm) Teflon-coated stainless steel probe	\$325.00	L15
Probe: Length - 20 in (50.9 cm) Teflon-coated stainless steel probe	\$325.00	L20
Probe: Length - 30 in (76.2 cm) Teflon-coated stainless steel probe	\$475.00	L30
Probe: Length - 36 in (91.4 cm) Teflon-coated stainless steel probe	\$475.00	L36
PROCESS TEMPERATURE		
Standard Process Temp: -40°F to 250°F (-40°C to 120°C) Max.	\$0.00	T2
High Process Temp: -40°F to 450°F (-40°C to 232°C) Max.	\$415.00	T4
High-High-Process Temp: -40°F to 800°F (-40°C to 426°C) Max.	\$3,285.00	T8
PROCESS PRESSURE		
Standard: 10 PSI Max.	\$0.00	1
High: PSI Max. (Flange, 0.75 in. NPT, or 2 in Quick-clamp only)	\$910.00	5
MOUNTING		
NPT Male, 0.5 in., (For 10 PSI Max.)	\$0.00	M1
NPT Male, 0.75 in., (For 50 PSI Max. and/or 500 °F peak)	\$140.00	M2
Quick clamp (1.5 in. Tri-Clamp with 1 in. NPT process connection, For 10 PSI Max.)	\$385.00	M3
Quick clamp (2.0 in. Tri-Clamp with 1.5 in. NPT process connection, For 50 PSI Max. and/or 500 °F peak and/or air purge)	\$385.00	M4
Quick clamp (3.0 in. Tri-Clamp with 2.0 in. NPT process connection, For faraday cage, 10 PSI Max., Probe Length ≤ 20 in)	\$385.00	M5
CABLE		
Base Cable: PS 10 Particulate Sensor Cable Standard	\$195.00	S
Base Cable: PS 10 Particulate Sensor Daisy Chain Cable	\$83.00	D
ft. cable length	\$3.25/ft.	XX

Mark X if none				
Sample				
BM-30LGX	P1	R1	XX	A1



Area Classification
A1: Ordinary/General Purpose Only
A2: Class I, II & III sensor

Output
XX: Digital outputs: (2) Relays (Standard)
X1: Analog outputs: (1) 4-20 mA Isolated

Resolution
R1: Standard: 5.0pA, Range 0 to 5000 pA
R2: High: 0.5pA, Range 0 to 5000 pA

Power Supply
P1: 120 VAC (50/60 Hz)
P2: 230 VAC (50/60 Hz)
P3: 24 VDC

Base Unit
BM-30LGX: BM30-LGX Particulate monitor control unit, NEMA 4X aluminum enclosure

BM30-LGX Control Unit

The BM30-LGX particulate monitor detects dusts, powders, granulars and pellets—as well as liquid particulates such as mists—before emissions are visible, helping companies meet regulatory requirements and preventing the escape of valuable powders. The BM30-LGX consists of a control unit, a particulate sensor, and a sensor coaxial cable. The control unit's LCD display allows for easy setup and adjustment of parameters and variable output monitoring. Applications for the BM30-LGX include continuous emissions monitoring, baghouse filter leak detection, and process particulate flow monitoring. The BM30-LGX is CE conformant, CSA certified, and complies with EN 61010, safety requirements for electrical equipment for measurement, control and laboratory use.



Description	Price	CODE
BASE UNIT		
BM30-LGX Particulate monitor control unit in NEMA 4X aluminum enclosure	\$2,695.00	BM-30LGX
POWER SUPPLY		
120 VAC (50/60 Hz)	\$0.00	P1
230 VAC (50/60 Hz)	\$0.00	P2
24 VDC	\$325.00	P3
RESOLUTION		
Standard: 5.0pA, Range 0 to 5000 pA	\$0.00	R1
High: 0.5pA, Range 0 to 5000 pA	\$765.00	R2
OUTPUT		
Digital outputs: (2) Relays (Standard)	\$0.00	XX
Analog outputs: (1) 4-20 mA Isolated	\$1,095.00	X1
AREA CLASSIFICATION		
Area Classification: Ordinary/General Purpose Only (CE Approved)	\$0.00	A1
Area Classification: CSA C & US approved for use with Class I, II, and III sensor	\$1,060.00	A2

Flow Detection

BinMaster’s flow detection devices offer a solution to material cross-contamination problems by using Doppler technology to communicate flow or no flow status to the user. Both the single-piece and two-piece flow detectors feature non-intrusive, flush-mounting designs and non-contact operation which eliminate flow stream interruption and reduce equipment wear.



Description	Price	Part No.
FLOW DETECT 1000		
FD1000-110VAC - Doppler flow / no flow monitor with remote electronics in NEMA 4X enclosure, 110 VAC	\$1,429.00	730-0181
FD1000-230VAC - Doppler flow / no flow monitor with remote electronics in NEMA 4X enclosure, 230 VAC	\$1,429.00	730-0182
FD1000 - Doppler flow / no flow monitor with open remote electronics	\$1,140.00	730-0221
FLOW DETECT 1000 REPLACEMENT PARTS		
FD 1000 sensor head only	\$896.00	530-0649
FLOW DETECT 2000		
FD2000 - Microwave flow / no flow monitor in NEMA 4X enclosure, 24 VDC, certified for Class II Groups E, F, & G	\$849.00	Standard: 730-0668 ATEX: 730-0668-EX
FLOW DETECT ACCESSORIES		
5 Conductor cable to connect remote sensor and console. Sold per foot.	\$2.04/ft.	398-0087
Optional saddle style pipe mount kit for Flow Detect 1000. Includes gasket.	\$113.00	416-0607
PSDC-4 - 24 VDC / 30 VA, NEMA 4X enclosure mounted power supply	\$183.00	730-0577



Aeration

Aeration devices keep powders and solids flowing so they don't pack in hoppers, along bin walls, or in the cone of the vessel. An Airbrator combines aeration and vibration to address difficult material flow applications such as fly ash, cement, flour, lime, sand, salt, or food-grade applications. A diffuser air pad helps promote material flow by preventing compaction and encouraging material to behave fluidly for easier handling.

Description	Price	Part No.
AIRBRATORS		
AIRBRATOR SILICONE - Standard Airbrator material fluidizer utilizing both aeration and vibration. Constructed of molded silicone pad with a stainless steel shaft.	\$47.00	730-0390
AIRBRATOR MOUNTING KITS		
AB-MKO - Airbrator external mounting kit for oval-shaped opening. Constructed of zinc-plated carbon steel.	\$43.00	416-0421
AB-MKR - Airbrator external mounting kit to retrofit air pad rectangular opening. Constructed of zinc-plated carbon steel.	\$50.00	730-0513
AIR PADS		
AP - Air pad with zinc-plated steel body, cotton diffuser cloth, and galvanized steel 16 mesh diffuser screen	\$45.00	730-0113
AP-SS - Air pad with stainless steel body, cotton diffuser cloth, and stainless steel 16 mesh diffuser screen	\$67.00	730-0114
AP-F - Air pad with zinc-plated steel body, fiberglass diffuser cloth, and galvanized steel 16 mesh diffuser screen	\$48.00	730-0115
AP-F-SS - Air pad with stainless steel body, fiberglass diffuser cloth, and stainless steel 16 mesh diffuser screen	\$72.00	730-0116
AIR PAD MOUNTING KIT		
AP-MK - Air pad mounting kit	\$27.00	730-0117

Description	Price	Part No.
AIRBRATOR PARTS		
Body, pad, neoprene	\$45.00	299-0494
Body, pad, silicone	\$12.00	299-0370
Shaft with dual mount threads, 303 SS	\$31.00	285-0125

Description	Price	Part No.
BINVENTORY		
Bininventory controller software with graphical display and inventory history in a SQL database for up to 99 SmartBob II remote sensors.	\$1,484.00	730-0537
Bininventory Client Viewer software allows multiple-user updating through a GUI front end to a shared SQL database. One Bininventory client software package is required per site where the Bininventory server software is running. The Bininventory client software can be installed on up to five PCs.	\$700.00	730-0538
Bininventory software upgrade	\$595.00	323-0060

BINVENTORY SENSOR COMPATIBILITY

Sensor	Protocol	Data Rate (bps)
SmartBob	Protocol B	2400
SmartBob-II	Protocol A	2400
SmartBob-II Average	Protocol A	2400
SmartSonic	Modbus/RTU	19200
3DLevelScanner	Modbus/RTU	115200
SmartBob via C-100MB	Modbus/RTU	9600
SPL-200 Laser	SPL-200 Protocol	9600
NCR-80 Open Air Radar	Modbus/RTU	9600
NCR-84 Non-Contact Radar	Modbus/RTU	9600
NCR-21 Non-Contact Radar	Modbus/RTU	9600
NCR-25 Non-Contact Radar	Modbus/RTU	9600
NCR-30 Non-Contact Radar	Modbus/RTU	9600
GWR-2000 Guided Wave Radar	Modbus/RTU	9600

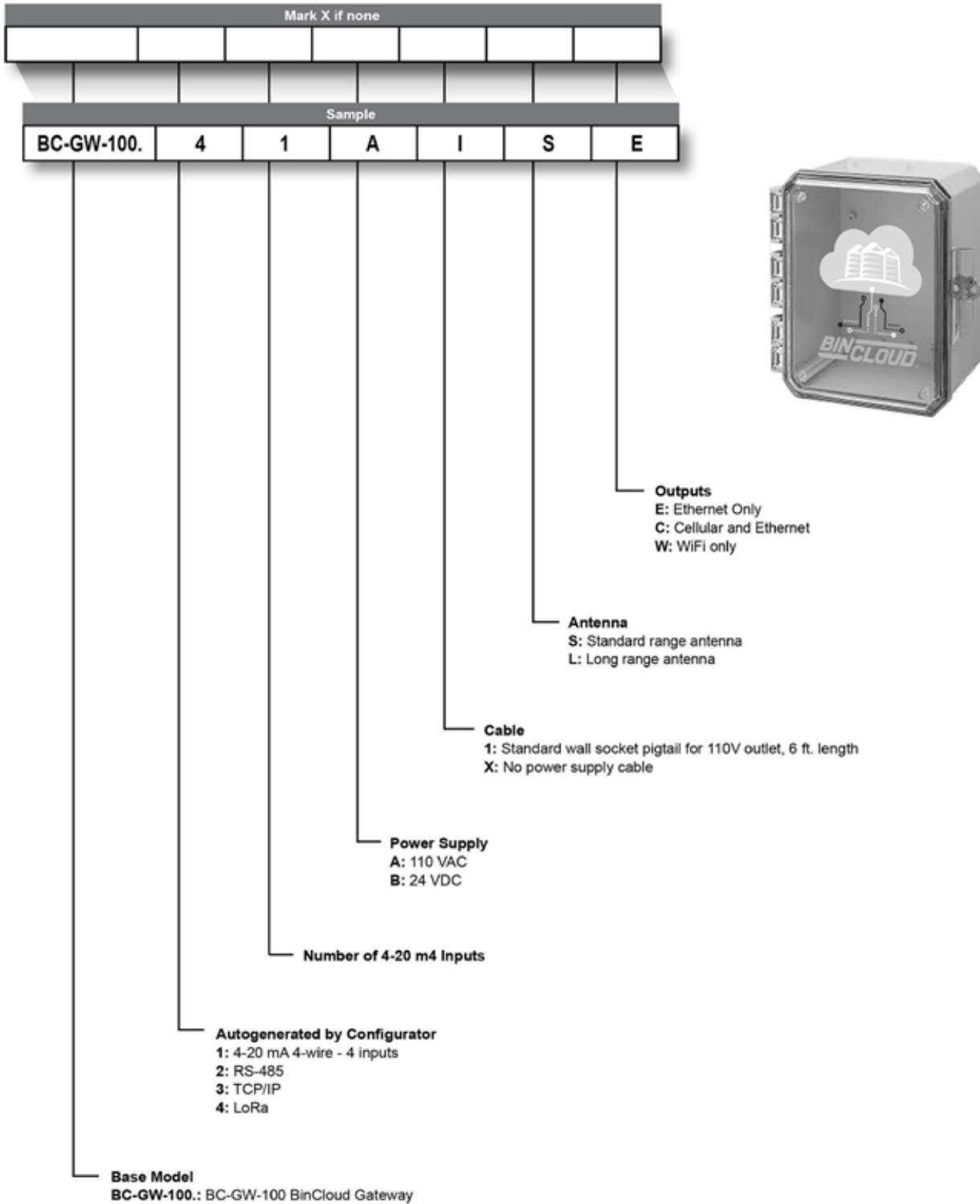


BinView & Gateways

NO DISCOUNTS OR COMMISSIONS ON BINVIEW

BinView is a web-based application for remote inventory monitoring of solids or liquids in tanks, bins, or silos. It is compatible with an array of BinMaster sensors as well as other sensors that have a 4-20 mA analog output or Modbus RTU. With automated alerts and a real-time inventory data display, BinView makes it easy to manage multiple vessels at multiple locations. BinView provides an intuitive interface optimized for both desktop and mobile devices. Administrator controls let you specify user privileges, allowing multiple users to access information—if desired—while securing against unauthorized changes to the system.

Description	Price	Part No.
BINVIEW		
BinView - One (1) Year Annual Subscription, for a single gateway. Includes SMS text and email alerts.	\$195.00	730-2100
BinView - One (1) Year Annual Subscription, for a each sensor. Includes SMS text and email alerts.	\$36.00	730-2101
BINVIEW GATEWAYS		
Indoor ConnectPort X4 Gateway, XBee or RS-485 to Ethernet & Cellular CDMA (Verizon or AT&T)	\$920.00	730-0588
Outdoor ConnectPort X4H Gateway, XBee or RS-485 to Ethernet & Cellular CDMA (Verizon or AT&T) in NEMA 4X/IP66 enclosure	\$920.00	730-0605
Indoor ConnectPort X4 Gateway, XBee or RS-485 to Ethernet only	\$524.00	730-0603
RS-232 to RS-485 interface used to connect computer serial port to RS-485 network when using BinInventory software	\$253.00	730-0202
BINVIEW CELLULAR DATA PLANS		
Cellular data plan 1 MB/month, approximately 96 sensor readings/day - multiple carriers including AT&T, Verizon, Sprint, US Cellular	\$60.00/yr.	730-2138
Cellular data plan 2 MB/month, approximately 180 sensor readings/day - multiple carriers including AT&T, Verizon, Sprint, US Cellular	\$125.00/yr.	730-2139
Cellular data plan 5 MB/month, approximately 500 sensor readings/day - multiple carriers including AT&T, Verizon, Sprint, US Cellular	\$160.00/yr.	730-2140



Description	Price	CODE
BINCLOUD GATEWAY BASE UNIT		
BC-GW-100 BinCloud Gateway collects sensor data and sends it to the BinCloud platform on the web. The BC-GW-100 consists of:	\$595.00	BC-GW-100.
BINCLOUD GATEWAY INPUTS		
Inputs - 4-20 mA 4 wire - Four inputs	\$140.00	2
Inputs - RS-485	\$30.00	3
Inputs - TCP/IP	\$0.00	4
Inputs - LoRa	\$70.00	5
BINCLOUD GATEWAY OUTPUTS		
Outputs - Ethernet Only	\$0.00	E
Outputs - Cellular and Ethernet	\$150.00	C
Outputs - WiFi only	\$0.00	W
BINCLOUD GATEWAY POWER SUPPLY		
Power Supply - 110 VAC	\$0.00	A
Power Supply - 24 VDC	\$0.00	B
BINCLOUD GATEWAY CABLE		
Cable - Standard wall socket pigtail for 110V outlet, 6ft in length	\$12.00	1
Cable - No power supply cable	\$0.00	X
BINCLOUD GATEWAY ANTENNA		
Antenna - Standard range antenna	\$0.00	S
Antenna - Long range antenna	\$30.00	L

Stockpile Reports



Binmaster brings precision and reliability to measuring and monitoring volume and tonnage in free standing stockpiles. Stockpile Reports automates pile measurement using pictures from an iPhone, drone, plane, or fixed camera. Data is accessed and shared on a web portal—completely digitizing material management. Dashboards populated with photographs, site statistics, and materials report vital information on the volume, tonnage, and condition risks for each pile. This SaaS subscription allows users to track pile inventory on a monthly, weekly, or even daily basis. This simple online service requires no special hardware and is scalable from five to thousands of piles for one site or an entire corporation.

Description	Price
DRONE FLIGHTS	
12 flight package	\$4,800.00
36 flight package	\$9,000.00
ACCESSORIES	
Cone set for measuring piles using iPhone image application. Includes two cones and chain set for proper distance.	\$60.00

SUBSCRIPTIONS

UP TO XX PILES	ONE MONTH TRIAL	ANNUAL SUBSCRIPTION	AVERAGE \$/PILE
5	\$150.00	\$1,500.00	\$30.00
10	\$200.00	\$2,000.00	\$20.00
15	\$258.00	\$2,580.00	\$17.20
20	\$310.00	\$3,100.00	\$15.50
25	\$363.00	\$3,630.00	\$14.52
35	\$468.00	\$4,680.00	\$13.37
50	\$588.00	\$5,880.00	\$11.76
60	\$690.00	\$6,900.00	\$11.50
70	\$788.00	\$7,880.00	\$11.26
80	\$880.00	\$8,800.00	\$11.00
90	\$968.00	\$9,680.00	\$10.76
100	\$1,000.00	\$10,000.00	\$10.00
125	\$1,281.00	\$12,810.00	\$10.25
175	\$1,706.00	\$17,060.00	\$9.75
200	\$1,900.00	\$19,000.00	\$9.50
250	\$2,313.00	\$23,130.00	\$9.25
350	\$3,063.00	\$30,630.00	\$8.75
400	\$3,400.00	\$34,000.00	\$8.50
450	\$3,713.00	\$37,130.00	\$8.25
500	\$4,000.00	\$40,000.00	\$8.00

Digital Panel Meters

BinMaster's digital panel meters provides easy-to-use, easy-to-see solutions for tank level monitoring and control. Models are available for Modbus and 4-20 mA inputs, and the large, ultra-bright LED displays are offered in single and dual-line configurations to meet your monitoring needs. With hardy NEMA 4X enclosures, these digital panel meters are suitable for a variety of indoor and outdoor process applications and can easily be seen in bright sunlight, smoke, fog, or dusty environments.



Description	Price	CODE	Part No.
DIGITAL PANEL METER			
DPM-100: Modbus RTU Digital Panel Meter - Display only no outputs Display: SunBright, 0.6", Dual Line, 6 Digits, Red LED Power: 85-265 VAC, 90-265 VDC Inputs: 16 Modbus RTU Outputs: None Transmitter Power: 24 VDC @ 200 mA Approvals: CE, UL/C-UL	\$587.00	PD6088-6H0	348-0029
DPM-100: Modbus RTU Digital Panel Meter - 2 Relays Output Display: SunBright, 0.6", Dual Line, 6 Digits, Red LED Power: 85-265 VAC, 90-265 VDC Inputs: 16 Modbus RTU Outputs: 2 Relays Approvals: UL/C-UL	\$635.00	PD6088-6H2	348-0026
DPM-100: Modbus RTU Digital Panel Meter - 4-20 mA Output Display: SunBright, 0.6", Dual Line, 6 Digits, Red LED Power: 85-265 VAC, 90-265 VDC Inputs: 16 Modbus RTU Outputs: 4-20 mA Output Approvals: UL/C-UL	\$656.00	PD6088-6H3	348-0024
DPM-100: Modbus RTU Digital Panel Meter - 2 Relays & 4-20 mA Outputs Display: SunBright, 0.6", Dual Line, 6 Digits, Red LED Power: 85-265 VAC, 90-265 VDC Inputs: 16 Modbus RTU Outputs: 2 Relays & 4-20 mA Output Approvals: UL/C-UL	\$698.00	PD6088-6H5	348-0027
DPM-100: Modbus RTU Digital Panel Meter - 4 Relays & 4-20 mA Outputs Display: SunBright, 0.6", Dual Line, 6 Digits, Red LED Power: 85-265 VAC, 90-265 VDC Inputs: 16 Modbus RTU Outputs: 2 Relays & 4-20 mA Output Approvals: UL/C-UL	\$740.00	PD6088-6H7	348-0025
DPM-100: Modbus RTU Digital Panel Meter - Display only no outputs - Low Voltage Display: SunBright, 0.6", Dual Line, 6 Digits, Red LED Power: 12-24VDC/VAC Inputs: 16 Modbus RTU Outputs: None Transmitter Power: 24 VDC @ 200 mA Approvals: CE, UL/C-UL	\$656.00	PD6088-7H0	348-0028

Description	Price	CODE	Part No.
DPM-100: Modbus RTU Digital Panel Meter - 2 Relays Output - Low Voltage Display: SunBright, 0.6", Dual Line, 6 Digits, Red LED Power: 12-24VDC/VAC Inputs: 16 Modbus RTU Outputs: 2 Relays Approvals: UL/C-UL	\$698.00	PD6088-7H2	348-0031
DPM-100: Modbus RTU Digital Panel Meter - 4-20 mA Output - Low Voltage Display: SunBright, 0.6", Dual Line, 6 Digits, Red LED Power: 12-24VDC/VAC Inputs: 16 Modbus RTU Outputs: 4-20 mA Output Approvals: UL/C-UL	\$719.00	PD6088-7H3	348-0032
DPM-100: Modbus RTU Digital Panel Meter - 2 Relays & 4-20 mA Outputs - Low Voltage Display: SunBright, 0.6", Dual Line, 6 Digits, Red LED Power: 12-24VDC/VAC Inputs: 16 Modbus RTU Outputs: 2 Relays & 4-20 mA Output Approvals: UL/C-UL	\$766.00	PD6088-7H5	348-0033
DPM-100: Modbus RTU Digital Panel Meter - 4 Relays & 4-20 mA Outputs - Low Voltage Display: SunBright, 0.6", Dual Line, 6 Digits, Red LED Power: 12-24VDC/VAC Inputs: 16 Modbus RTU Outputs: 4 Relays & 4-20 mA Output Approvals: UL/C-UL	\$808.00	PD6088-7H7	348-0034
DPM-200 SERIES 0.56" DISPLAY: 85-265 VAC			
DPM-200 - No options installed, Powered from 85-265 VAC	\$252.00	PD765-6R0-00-BM	348-0037
DPM-200 - 24 VDC Transmitter Supply, Powered from 85-265 VAC	\$296.00	PD765-6R0-10-BM	348-0038
DPM-200 - 2 Relays, Powered from 85-265 VAC	\$318.00	PD765-6R2-00-BM	348-0039
DPM-200 - 2 Relays & Transmitter Supply, Powered from 85-265 VAC	\$362.00	PD765-6R2-10-BM	348-0040
DPM-200 - 4-20 mA Output Supply, Powered from 85-265 VAC	\$351.00	PD765-6R3-00-BM	348-0041
DPM-200 - 4-20 mA Output and Transmitter Supply, Powered from 85-265 VAC	\$373.00	PD765-6R3-10-BM	348-0042
DPM-200 - 4-20 mA Output and Dual 24 VDC Transmitter Supplies, Powered from 85-265 VAC	\$467.00	PD765-6R3-20-BM	348-0043
DPM-200 - 2 Relays, 4-20 mA Output and Transmitter Supply, Powered from 85-265 VAC	\$395.00	PD765-6R5-10-BM	348-0044
DPM-200 SERIES 0.56" DISPLAY: 12-36VDC			
DPM-200 - No Options Installed, Powered from 12-36 VDC	\$307.00	PD765-7R0-00-BM	348-0045
DPM-200 - 2 Relays, Powered from 12-36 VDC	\$373.00	PD765-7R2-00-BM	348-0046
DPM-200 - 4-20 mA Output, Powered from 12-36 VDC	\$384.00	PD765-7R3-00-BM	348-0047
DPM-200 - 2 Relays, 4-20 mA Output, Powered from 12-36 VDC	\$406.00	PD765-7R5-00-BM	348-0048
DPM-200 SERIES 1.20" DISPLAY: 85-265 VAC			
DPM-200 - No options installed, Powered from 85-265 VAC	\$362.00	PD765-6X0-00-BM	348-0049
DPM-200 - 24 VDC Transmitter Supply, Powered from 85-265 VAC	\$406.00	PD765-6X0-10-BM	348-0050
DPM-200 - 2 Relays, Powered from 85-265 VAC	\$428.00	PD765-6X2-00-BM	348-0051
DPM-200 - 2 Relays and Transmitter Supply, Powered from 85-265 VAC	\$472.00	PD765-6X2-10-BM	348-0052
DPM-200 - 4-20 mA Output, Powered from 85-265 VAC	\$461.00	PD765-6X3-00-BM	348-0053
DPM-200 - 4-20 mA Output and Transmitter Supply, Powered from 85-265 VAC	\$483.00	PD765-6X3-10-BM	348-0054
DPM-200 - 4-20 mA Output and Dual 24 VDC Transmitter Supplies, Powered from 85-265 VAC	\$577.00	PD765-6X3-20-BM	348-0055

Description	Price	CODE	Part No.
DPM-200 - 2 Relays, 4-20 mA Output and Transmitter Supply, Powered from 85-265 VAC	\$505.00	PD765-6X5-10-BM	348-0056
DPM-200 SERIES 1.20" DISPLAY: 12-36VDC			
DPM-200 - No Options Installed, Powered from 12-36 VDC	\$417.00	PD765-7X0-00-BM	348-0057
DPM-200 - 2 Relays, Powered from 12-36 VDC	\$483.00	PD765-7X2-00-BM	348-0058
DPM-200 - 4-20 mA Output, Powered from 12-36 VDC	\$494.00	PD765-7X3-00-BM	348-0059
DPM-200 - 2 Relays, 4-20 mA Output, Powered from 12-36 VDC	\$516.00	PD765-7X5-00-BM	348-0060
DPM-300 SERIES LARGE 2-LINE DISPLAY: 85-265 VAC			
DPM-300 - No Options Installed, Powered from 85-265 VAC	\$1,319.00	PD2-6080-6H0-BM	348-0061
DPM-300 - 4 Relays and 4-20 mA Output, Powered from 85-265 VAC	\$1,479.00	PD2-6080-6H7-BM	348-0062
DPM-300 SERIES LARGE 2-LINE DISPLAY: 12-36VDC			
DPM-300 - No Options, Powered from 12-24VDC	\$1,391.00	PD2-6080-7H0-BM	348-0063
DPM-300 - 4 Relays and 4-20 mA Output, Powered from 12-24VDC	\$1,550.00	PD2-6080-7H7-BM	348-0064
DPM-400 SERIES LOOP-POWERED 2-LINE DISPLAY			
DPM-400 - Loop powered 4-20 mA panel meter, dual line, 0.7" & 0.4" high, 5 & 8 digits. Feet and inches display, no options installed	\$252.00	PD6603-LNN-BM	348-0089
DPM-400 - Loop powered 4-20 mA panel meter, dual line, 0.7" & 0.4" high, 5 & 8 digits. Feet and inches display, 2 relays.	\$329.00	PD6603-L2N-BM	348-0090
DPM-400 - Loop powered 4-20 mA panel meter, dual line, 0.7" & 0.4" high, 5 & 8 digits. Feet and inches display, 4-20 mA output.	\$329.00	PD6603-L3N-BM	348-0091
DPM-400 - Loop powered 4-20 mA panel meter, dual line, 0.7" & 0.4" high, 5 & 8 digits. Feet and inches display, 2 relays and 4-20 mA output.	\$390.00	PD6603-L5N-BM	348-0092
DPM-400 - Loop powered 4-20 mA panel meter, dual line, 0.7" & 0.4" high, 5 & 8 digits. Bargraph display, no options installed.	\$329.00	PD6604-LNN-BM	348-0093
DPM-400 - Loop powered 4-20 mA panel meter, dual line, 0.7" & 0.4" high, 5 & 8 digits. Bargraph display, 2 relays.	\$329.00	PD6604-L2N-BM	348-0094
DPM-400 - Loop powered 4-20 mA panel meter, dual line, 0.7" & 0.4" high, 5 & 8 digits. Bargraph display, 4-20 mA output.	\$329.00	PD6604-L3N-BM	348-0095
DPM-400 - Loop powered 4-20 mA panel meter, dual line, 0.7" & 0.4" high, 5 & 8 digits. Bargraph display, 2 relays and 4-20 mA output.	\$390.00	PD6604-L5N-BM	348-0096
DPM-500 SERIES 4-20 MA 2-LINE DISPLAY: 86-265 VAC			
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 85-265 VAC, no options installed.	\$346.00	PD6000-6R0-BM	348-0065
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 85-265 VAC, 2 relays.	\$395.00	PD6000-6R2-BM	348-0066
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 85-265 VAC, 4-20 mA output.	\$417.00	PD6000-6R3-BM	348-0067
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 85-265 VAC, 4 relays.	\$439.00	PD6000-6R4-BM	348-0068
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 85-265 VAC, 2 relays and 4-20 mA output.	\$461.00	PD6000-6R5-BM	348-0069
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 85-265 VAC, 4 relays and 4-20 mA output.	\$505.00	PD6000-6R7-BM	348-0070
DPM-500 SERIES 4-20 MA 2-LINE DISPLAY: 12-24VDC			
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 12-24VDC, no options installed.	\$417.00	PD6000-7R0-BM	348-0071
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 12-24VDC, 2 relays.	\$461.00	PD6000-7R2-BM	348-0072
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 12-24VDC, 4-20 mA output.	\$483.00	PD6000-7R3-BM	348-0073
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 12-24VDC, 4 relays.	\$505.00	PD6000-7R4-BM	348-0074

Description	Price	CODE	Part No.
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 12-24VDC, 2 relays and 4-20 mA output.	\$533.00	PD6000-7R5-BM	348-0075
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 12-24VDC, 4 relays and 4-20 mA output.	\$577.00	PD6000-7R7-BM	348-0076
DPM-500 SERIES HIGH INTENSITY LED 4-20 MA 2-LINE DISPLAY			
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 85-265 VAC, no options installed. High intensity LEDs.	\$456.00	PD6000-6H0-BM	348-0077
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 85-265 VAC, 2 relays. High intensity LEDs.	\$505.00	PD6000-6H2-BM	348-0078
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 85-265 VAC, 4-20 mA output. High intensity LEDs.	\$527.00	PD6000-6H3-BM	348-0079
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 85-265 VAC, 4 relays. High intensity LEDs.	\$549.00	PD6000-6H4-BM	348-0080
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 85-265 VAC, 2 relays and 4-20 mA output. High intensity LEDs.	\$571.00	PD6000-6H5-BM	348-0081
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 85-265 VAC, 4 relays and 4-20 mA output. High intensity LEDs.	\$615.00	PD6000-6H7-BM	348-0082
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 12-24VDC, no options installed. High intensity LEDs.	\$527.00	PD6000-7H0-BM	348-0083
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 12-24VDC, 2 relays. High intensity LEDs.	\$571.00	PD6000-7H2-BM	348-0084
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 12-24VDC, 4-20 mA output. High intensity LEDs.	\$593.00	PD6000-7H3-BM	348-0085
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 12-24VDC, 4 relays. High intensity LEDs.	\$615.00	PD6000-7H4-BM	348-0086
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 12-24VDC, 2 relays and 4-20 mA output. High intensity LEDs.	\$643.00	PD6000-7H5-BM	348-0087
DPM-500 - 4-20 mA input 8 digit, dual line panel meter. Powered from 12-24VDC, 4 relays and 4-20 mA output. High intensity LEDs.	\$687.00	PD6000-7H7-BM	348-0088
DPM-100, DPM-200, DPM-300, & DPM-500 ENCLOSURES			
DPM-100: NEMA 4X Enclosure DIN Size: 1/8 DIN Material: Plastic Meter Mounting: Through front panel Enclosure Cutouts: One (1) Cutout DIN Size: 1/8 DIN Cover Method: Hinge / Screw Orientation: Horizontal Approvals: UL/C-UL	\$239.00	PDA2301	220-0445
DPM-100: NEMA 4X Enclosure DIN Size: 1/8 DIN Material: Plastic Meter Mounting: Through front panel Enclosure Cutouts: Two (2) Cutout DIN Size: 1/8 DIN Cover Method: Hinge / Screw Orientation: Horizontal Approvals: UL/C-UL	\$289.00	PDA2302	220-0446

Description	Price	CODE	Part No.
DPM-100: NEMA 4X Enclosure DIN Size: 1/8 DIN Material: Plastic Meter Mounting: Through front panel Enclosure Cutouts: Three (3) Cutout DIN Size: 1/8 DIN Cover Method: Hinge / Screw Orientation: Horizontal Approvals: UL/C-UL	\$324.00	PDA2303	220-0447
DPM-100: NEMA 4X Enclosure DIN Size: 1/8 DIN Material: Plastic Meter Mounting: Through front panel Enclosure Cutouts: Four (4) Cutout DIN Size: 1/8 DIN Cover Method: Hinge / Screw Orientation: Horizontal Approvals: UL/C-UL	\$469.00	PDA2304	220-0448
DPM-100: NEMA 4X Enclosure DIN Size: 1/8 DIN Material: Plastic Meter Mounting: Through front panel Enclosure Cutouts: Five (5) Cutout DIN Size: 1/8 DIN Cover Method: Hinge / Screw Orientation: Horizontal Approvals: UL/C-UL	\$499.00	PDA2305	220-0449
DPM-100: NEMA 4X Enclosure DIN Size: 1/8 DIN Material: Plastic Meter Mounting: Through front panel Enclosure Cutouts: Six (6) Cutout DIN Size: 1/8 DIN Cover Method: Hinge / Screw Orientation: Horizontal Approvals: UL/C-UL	\$529.00	PDA2306	220-0444
DPM-100: NEMA 4X Enclosure DIN Size: 1/8 DIN Material: Plastic Meter Mounting: Through front panel Enclosure Cutouts: Seven (7) Cutout DIN Size: 1/8 DIN Cover Method: Hinge / Screw Orientation: Horizontal Approvals: UL/C-UL	\$664.00	PDA2307	220-0450

Description	Price	CODE	Part No.
DPM-100: NEMA 4X Enclosure DIN Size: 1/8 DIN Material: Plastic Meter Mounting: Through front panel Enclosure Cutouts: Eight (8) Cutout DIN Size: 1/8 DIN Cover Method: Hinge / Screw Orientation: Horizontal Approvals: UL/C-UL	\$714.00	PDA2308	220-0451
DPM-100: NEMA 4X Enclosure DIN Size: 1/8 DIN Material: Plastic Meter Mounting: Through front panel Enclosure Cutouts: Nine (9) Cutout DIN Size: 1/8 DIN Cover Method: Hinge / Screw Orientation: Horizontal Approvals: UL/C-UL	\$764.00	PDA2309	220-0452
DPM-100: NEMA 4X Enclosure DIN Size: 1/8 DIN Material: Plastic Meter Mounting: Through front panel Enclosure Cutouts: Ten (10) Cutout DIN Size: 1/8 DIN Cover Method: Hinge / Screw Orientation: Horizontal Approvals: UL/C-UL	\$804.00	PDA2310	220-0453



Wireless Systems

Reduce the cost and complexity of installing your inventory management system using BinMaster's wireless systems. Easily programmable, compact devices replace wires with over-the-air technology. A simple point-to-point system eliminates the hassle of running wires. Point-to-multi-point systems are easily scaled for larger or more complex deployments using additional wireless units, base stations, and wireless repeaters. Either system can transmit up to a mile line-of-sight outdoors or 500 feet indoors.

Description	Price	CODE
WIRELESS SYSTEM COMPONENTS		
WR-90 base station analog input module	\$95.00	WR-90-CA
WR-90 base station digital I/O module	\$95.00	WR-90-CD
WR-90 base station relay output module	\$95.00	WR-90-CR
WR-90 base station analog output module	\$95.00	WR-90-CT
Point-to-Point wireless replacement kit	\$995.00	WR-30-TR
Wireless repeater for wire replacement transmitters	\$495.00	WR-30 RP
Point-to-multipoint wire replacement transmitters	\$495.00	WR-90-TR
Point-to-multipoint wire replacement base station	\$495.00	WR-90-BA

Description	Price	Part No.
QUICK DISCONNECT CONNECTORS		
M12 Eurofast male quick disconnect connection installed into the sensors conduit and pre-wired to the control board	\$40.00	530-0871
7/8" Minifast male quick disconnect connection installed into the sensors conduit and pre-wired to the control board	\$45.00	530-0872
Field-wireable M12 Eurofast straight female connector, plastic (PBT Or Nylon)	\$30.00	318-0236
Field-wireable 7/8" minifast straight female connector, glass-filled nylon body	\$50.00	318-0237
4/18 AWG YELLOW PVC; bulk cable, coil, with yellow polyvinyl chloride outer jacket, wire complement: altogether 4X18 AWG wires. Non-returnable. Sold by the foot.	\$2.15/ft.	398-0585

TERMS AND CONDITIONS

Effective November 15, 2019

These Terms and Conditions only apply to the purchase of equipment as specified on the quote and purchase order, which are incorporated herein by reference. The license to and use of the software program set forth on the quote and purchase order is governed by that certain SaaS End User License Agreement agreed to and accessible through the software program.

PAYMENT. Terms of payment are net thirty (30) days from the date of invoice. If, in the Seller's opinion, the financial condition of the Buyer at any time or any other circumstance does not justify the incurrence of production costs or shipment on the terms specified, the Seller may require partial or full payment for products in advance.

DELIVERY & SHIPMENT. Unless otherwise stated in the quotation, transfer of title and risk of loss for shipments will transfer EXW at the time of shipment in Lincoln, Nebraska. Equipment is packaged in "best commercial practice." Buyer shall bear the expense of all other packaging. If Buyer fails to specify a mode of shipment, Seller will select a reasonable mode of transportation. All costs of shipment, including duties, tariffs, and taxes, are the responsibility of the Buyer.

QUOTATION AND PRICE. Quoted prices are firm for ninety (90) days and thereafter are subject to change without notice after ninety (90) days; provided, however, notwithstanding the foregoing, quoted prices may also be changed or modified by Seller at any time without notice due to cost increases (1) of imported products, (2) of raw materials or supplies, or (3) based upon increases in import or export tariffs, trade disputes, or currency fluctuations.

TAXES. The quotation does not include any applicable sales, use, revenue, excise, or any other taxes for products sold or delivered unless they are specifically stated. Seller will collect any such taxes that it is required to collect, unless Buyer provides to Seller an acceptable sale and use tax exemption certificate.

LIMITED PRODUCT WARRANTY. Products manufactured by Seller are warranted for a period of one (1) year from date of shipment against defective materials and workmanship (the "Warranty Period"). SELLER MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS HEREBY DISCLAIMED AND EXCLUDED. This limited warranty does not extend to labor charges or other costs related to the removal and/or replacement of defective products or services. Any technical advice or services furnished by Seller with respect to the products is given without charge, and Seller assumes no obligation or liability for the advice given or results obtained, all such advice being given and accepted at Buyer's sole risk and expense. If the products are being acquired for resale, Buyer will make, in connection with any such resale, only those warranties contained herein and will indemnify Seller and its officers, directors, agents, employees, affiliates, successors, and assigns against any claims, causes of actions and judgments which arise from any representations, warranties, or agreements made by or entered into by Buyer, other than those contained herein.

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UCTS WHILE IN TRANSIT, OR INABILITY TO OBTAIN LABOR, MATERIALS OR PARTS FROM USUAL SOURCES WITH RESPECT TO THE PRODUCTS. IN THE EVENT OF ANY DELAY, PERFORMANCE WILL BE POSTPONED BY SUCH LENGTH OF TIME AS MAY BE REASONABLY NECESSARY TO COMPENSATE FOR THE DELAY. IN THE EVENT PERFORMANCE BY SELLER OF ANY ORDER FROM BUYER CANNOT BE ACCOMPLISHED BY SELLER DUE TO ANY ACTION OF GOVERNMENTAL AGENCIES, OR ANY LAWS, RULES OR REGULATIONS OF ANY GOVERNMENTAL AGENCY, SELLER (AT ITS OPTION) MAY CANCEL BUYER'S ORDER WITHOUT LIABILITY.

LIMITATION OF CLAIMS. In addition to Buyer's inspection obligation set forth in Section 9 hereof, and notwithstanding any custom of trade or course dealing between Seller and Buyer, failure of Buyer to give notice of any claim for breach of warranty within ninety (90) days after the defect in the product is discovered or reasonably should have been discovered by Buyer or the expiration of the Warranty Period, whichever is earlier, shall constitute an unqualified waiver by Buyer of all claims with respect thereto, including the right to receive a refund of or credit for the purchase price or repair or replacement of the products.

ASSUMPTION OF RISK. Buyer assumes all risk and liability whatsoever for any and all injuries (including death), losses or damages to persons or property or otherwise resulting from or arising in connection with Buyer's possession, handling, storage, transportation, use, sale, or other disposition of any products sold or manufactured, whether used alone or in conjunction with other products, or incorporated in a finished product, and Buyer agrees to indemnify and hold harmless Seller, its officers, directors, agents, employees, affiliates, successors, and assigns from and against any and all damages (including consequential and incidental damages), costs, claims, suits, judgments, liabilities and expenses (including attorney's fees) arising out of or in connection with any of the foregoing.

INSPECTION AND REJECTION OF NON-CONFORMING GOODS. Buyer shall examine the products hereunder upon its receipt of the products and shall promptly notify Seller in writing of any shortage, loss, or damage apparent under reasonable examination. Failure by Buyer to send such notification to Seller within ten (10) days after Buyer's receipt of such products (which the parties agree is a reasonable time) shall constitute acceptance of such products and an absolute and unconditional waiver of all claims for such shortage, loss, or nonconforming products.

RETURN OF GOODS. In no case may products or parts be returned without Seller's prior written permission. Products or parts returned in conformity with the above Limited Product Warranty (Section 5) must be shipped with transportation charges prepaid and must be accompanied by an explanation, reasonably satisfactory to Seller, of the nature of the asserted noncompliance with Seller's Limited Product Warranty. All other returns must be shipped with transportation charges prepaid and will be subject to a restocking charge of 25%. Only products of standard Seller manufacture will be accepted for return. Products that are specifically modified or produced to Buyer's specifications will not be accepted for return.

CONTRACT INFORMATION. A binding contract shall not be effective until a quote signed by the Customer and written purchase order is received at Seller's office in Lincoln, NE and the purchase order accepted in writing by an authorized employee of the Seller at its office. THE TERMS AND CONDITIONS IN SELLER'S QUOTATION OR ACKNOWLEDGEMENT AND THESE STANDARD TERMS AND CONDITIONS OF SALE SHALL GOVERN THE CONTRACT AND ANY DIFFERENT OR ADDITIONAL TERMS IN BUYER'S PURCHASE ORDER, UNLESS APPROVED BY SELLER'S PRESIDENT OR CHIEF EXECUTIVE OFFICER IN WRITING, ARE HEREBY OBJECTED TO AND REJECTED, BUYER WILL BE DEEMED TO HAVE ACCEPTED THESE STANDARD TERMS AND CONDITIONS OF SALE UNLESS WRITTEN NOTICE OF REJECTION IS RECEIVED BY SELLER WITHIN TEN (10) DAYS AFTER BUYER'S RECEIPT OF THESE STANDARD TERMS AND CONDITIONS OF SALE, IN ANY EVENT, BUYER'S ACCEPTANCE OF DELIVERY OF THE PRODUCTS SOLD HEREUNDER SHALL BE DEEMED TO CONSTITUTE BUYER'S ASSENT TO THESE TERMS AND CONDITIONS AND BUYER'S WAIVER OF ALL TERMS AND CONDITIONS PROPOSED BY BUYER IN WRITING OR OTHERWISE THAT ARE DIFFERENT FROM OR ADDITIONAL TO THOSE SET FORTH IN THESE STANDARD TERMS AND CONDITIONS OF SALE.

NO WAIVER. Failure of Seller to object to any terms that now or in the future appear in any document or form of Buyer shall not be construed as a waiver of the provisions of these terms and conditions nor an acceptance of any such term. Seller's failure or delay in insisting on strict performance of any of these terms or conditions or in exercising any right, power or privilege hereunder, at any time, shall not operate as a waiver of the same, nor shall Seller's waiver of any breach hereunder constitute a waiver of any other terms, conditions, or privileges, whether of the same or similar type.

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