



PROCAP

Capacitance Level Sensors

Simple. Rugged. Reliable.

- Triple thread screw on/off cover - No more bolts!
- Unsurpassed sensitivity and stability
- No interference from RF signals
- Switch selectable high/low fail-safe
- "Quick-Set" calibration
- Dual conduit entrance for improved wiring access
- Hazardous location approval standard
- Wetted parts are all 316 stainless steel
- Powder coat finish
- Dual timer covered/uncovered flexibility

CONTACT YOUR DEALER
FOR MORE INFORMATION
OR A QUOTATION:



(800) 792-7427 OR (352) 628-6674

BINMASTER®

PROCAP Capacitance Probes

(800) 792-7427
(352) 628-6674

No plant equipment interference from RF signals

Innovative Design

PROCAP capacitance probes use advanced integrated circuit technology operating at a low frequency to achieve both high sensitivity and stable calibration. The probe uses a simple timing technique that compares the discharge time of the probe capacitance to that of a reference capacitance. The probe's outstanding stability results from several factors.

- A single integrated circuit makes the critical timing comparison. Temperature variations have an equal effect on the timing of both the probe and reference capacitance and, therefore, cancel.
- The time interval at which the discharge comparison is repeated is not involved in the sensing process, making calibration independent of oscillator frequency and stability.
- Both the probe and the reference capacitance discharge are from a common voltage level. This makes calibration insensitive to power supply voltage variations.
- Equal internal capacitance in both the probe and reference circuitry make any temperature dependent changes to these component values cancel. In addition, these internal capacitors have zero temperature coefficients and are physically located together to assure they are at equal temperatures.

New calibration stability, along with static discharge survival, and RF immunity are three of the main reasons why BinMaster probes outperform the competition.

Interference Free

BinMaster's PROCAP capacitance sensors provide high sensitivity and accurate level detection without using radio frequency (RF) signals. According to the Federal Communications Commission, signals in excess of 9 KHz are classified as "RF" and are prone to radiate. Competitive capacitance sensors which emit RF signals may interfere with nearby electronic plant equipment. Conversely, some competitive sensors utilizing RF are themselves susceptible to interference from other RF sources and may not function properly when a device such as a two-way radio is operated near them. BinMaster PROCAP capacitance probes are completely immune to such interference issues.

"Quick-Set" Calibration

Calibrating PROCAP sensors is made simple and precise with the Quick-Set design using two single-turn potentiometers. One labeled "coarse" is used to compensate for the capacitance of the empty vessel. The other potentiometer labeled "fine" is set to the desired sensitivity for the vessel material. However, material does not need to be present when calibrating PROCAP sensors. Two quick turns and the sensor will maintain precise calibration and dependable operation even throughout extreme climate changes.

Principle of operation

BinMaster's PROCAP capacitance sensors detect the presence or absence of material in contact

with the probe by sensing a change in capacitance caused by the difference in the dielectric constant of the vessel material and air. These sensors must be able to sense very small changes in capacitance, typically one picofarad.

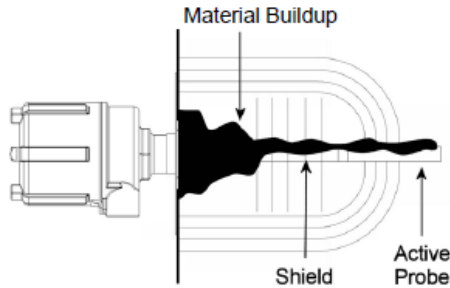
To sense such a small capacitance change, competitive manufacturers often use electronic circuits incorporating frequency shift oscillators and balanced bridges that must operate at high frequencies in the RF range. Most capacitance sensor manufacturers use frequencies between 100 KHz and 2 MHz.

BinMaster's capacitance probes use a unique discharge time constant detector circuit which allows sensing capacitance changes less than one picofarad without the need for radio frequencies. PROCAP capacitance sensors operate at approximately 6 KHz, well below the RF level and therefore are not subject to FCC regulation. Plus, because the PROCAP sensors operate at such a low frequency, they will not interfere with nearby electronic plant equipment and are not susceptible to interference from other equipment.



Quality Construction, Reliable Performance

(800) 792-7427
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Accurate & reliable level detection even in the harshest conditions

Pro-Shield Prevents False Readings

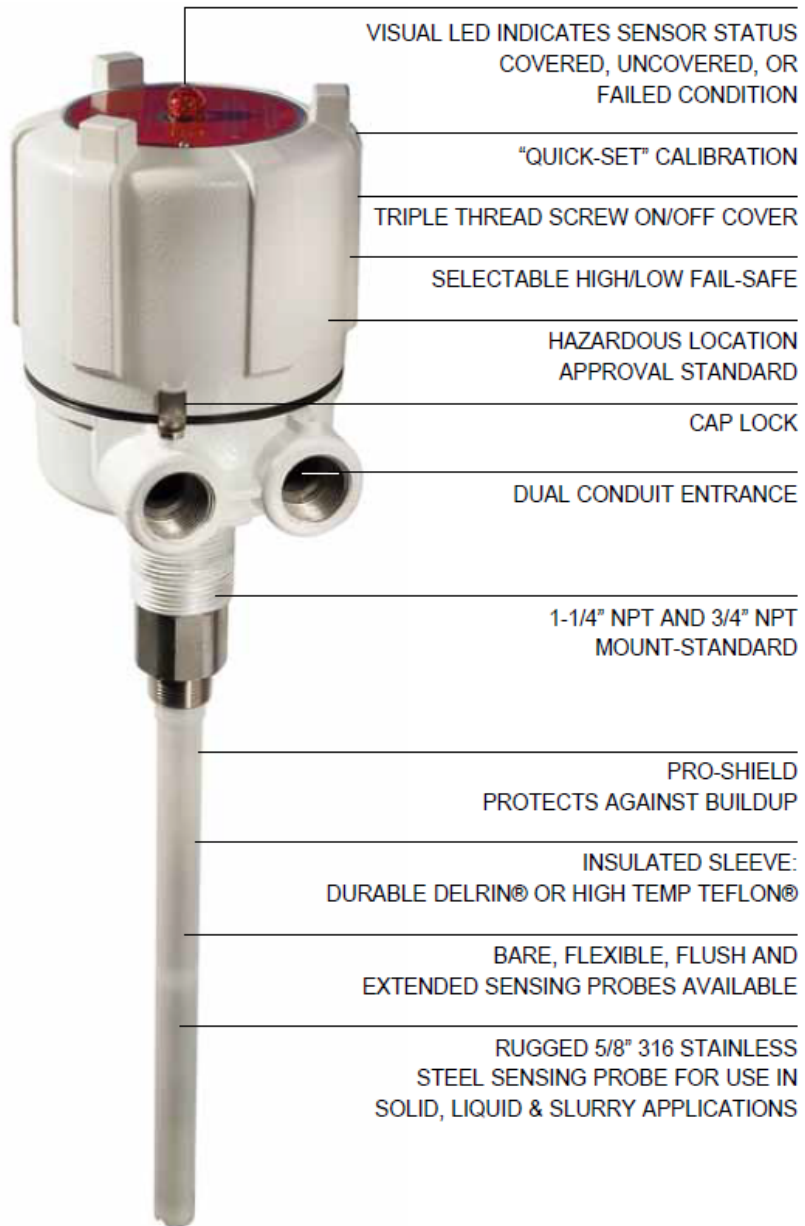
PROCAP sensors feature PRO-Shield to guard against false readings from buildup on the probe or bridging between the sidewall and the probe. The shield is a portion of the probe that emits a non-sensing signal that forces the active signal to examine a large area around the probe. The PRO-Shield allows the PROCAP sensors to be used in vessels storing a wide variety of dusty, sticky, or clinging materials.

Time Delay Minimizes False Signals

The time delay feature minimizes false signals from sudden material shifts or splashing liquids caused by process activities. The time delay operates by "delaying" a set period of time prior to acknowledging the signal for a change in the presence or absence of material. The time delay is simple to adjust and may be set up to 30 seconds. BinMaster also offers a dual timer capacitance probe with a flexible time delay for covered and uncovered conditions.

New Fail-Safe Protection Eliminates Process Accidents

PROCAP capacitance sensors feature fail-safe protection to eliminate process accidents caused by a power failure. A high/low selectable switch allows the sensor to be set for fail-safe high or fail-safe low.



PROCAP Sensors

Modular Design, Many Applications

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Applications

BinMaster's PROCAP capacitance sensors are designed for a wide array of applications. PROCAP sensors may be used in solid, liquid and slurry materials. The sensors may be used for high and low level detection in bins, silos, tanks, hoppers, chutes and other vessels where material is stored, processed or discharged.

Detects Wide Range of Materials

Capacitance sensors are calibrated based on the dielectric constant of the material being detected. BinMaster's PROCAP sensors may be easily calibrated for detecting material with a dielectric constant ranging from 1.5 picofarad and greater. With the simple to use "Quick-Set" calibration, a PROCAP sensor can be set to detect your material in just a few seconds!



OEM Models

The shielded, bare stainless steel probe was designed to allow customers to purchase one standard probe and adjust the length in the field. The probe can be cut down to 8" or extended to 8'. This will reduce cost, decrease lead times, and allow stocking of one probe.



Extended Models

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

Sanitary Models

Sanitary versions for the food and pharmaceutical industries have no threads and feature a tri-clamp connection. These units are 3-A/USDA compliant and are food grade safe. Units are designed to operate in clean-in-place (CIP) applications in the food industry.



Flush Mounted Models

This probe was 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.



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PROCAP Series

Mounting Flexibility, Various Configurations



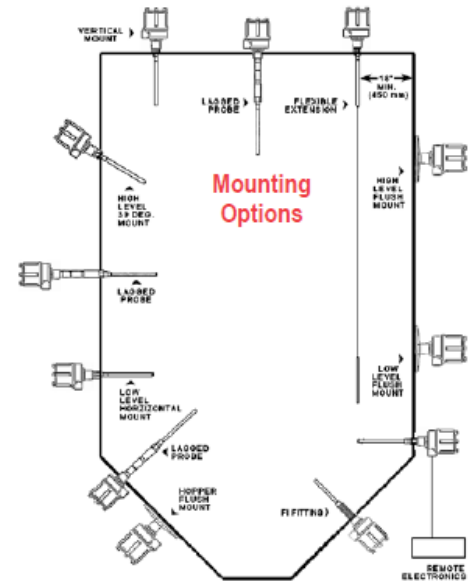
Bendable Probe

This probe can be bent to avoid obstructions in a vessel while still allowing adequate probe surface area to detect presence or absence of material. The bendable probe can be used in most solid materials; one popular use is in smaller mixers or containers for food processing applications.



Hazardous Locations

PROCAP IX & IIX capacitance sensors are specially designed for hazardous location applications. The sensor housing is explosion proof for Class I, Groups C & D and Class II, Groups E, F & G. This model is available with a standard or flush mount sensing probe.



Remote Electronics

Specially designed for hostile applications with high temperature or vibration, the probe and electronics are housed in separate enclosures. With this unique "split" configuration, the sensor's electronics may be safely mounted up to 75' from the sensing probe.



Auto-Calibration

The PRO AUTO-CAL calibration procedures take seconds and can be performed through the unit's cover with the use of a magnet. This unit also allows simulation of either covered or uncovered conditions without accessing the probe assembly or electronics.

Common PROCAP Material Applications

Calcium	Grains
Cement	Oils
Coal	Paints
Chemicals	Paper Pulp
Feed	Pellets
Fly Ash	Plastics
Food	Pharmaceuticals
Rubber	Sand



PROCAP I & II

PROCAP IX & IIX

PROCAP I 3-A & II 3-A

PROCAP I: Power	24 to 240 VAC or VDC Universal Power Supply
Ambient Temperature:	-20°F to +145°F (-28°C to +62°C)
PROCAP II: Power	115/230 VAC 50/60 Hz, 2.2VA
Ambient Temperature:	-40°F to +158°F (-40°C to +70°C)
Output Relay:	DPDT 10 Amp at 250 VAC
Probe:	250°F Delrin/Bare (121°C) 500°F Teflon (260°C)
Pressure:	500 psi, 3/4" mount
Sensitivity Setting:	Adjustable sensitivity to < 1 picofarad
Calibration:	"Quick Set" Coarse/fine single turn potentiometers
Fail-Safe:	Switch selectable high/low
Time Delay:	Dual delay covered/ uncovered up to 30 seconds
Enclosure:	Die cast aluminum, threaded cover, FDA recognized powder coat finish
Conduit Entry:	3/4" NPT
Mounting:	1-1/4" NPT or 3/4" NPT 316 SS
PRO-Shield:	Compensates for material buildup on sensing probe
Approval Rating:	UL listed for Class II, Groups E, F & G Hazardous Locations. Enclosure Type NEMA 4X, 5, 9 & 12. CE Mark.
Status Indicator:	Visual LED indicates sensor status: uncovered, covered, and power failure
Probe Options:	Delrin, Teflon, food grade, flush mount, flexible extension, stubby shielded, extended shielded, bare shielded, lagged

PROCAP IX: Power	24 to 240 VAC or VDC Universal Power Supply
Ambient Temperature:	-20°F to +145°F (-28°C to +62°C)
PROCAP IIX: Power	115/230 VAC 50/60 Hz, 2.2VA
Ambient Temperature:	-40°F to +158°F (-40°C to +70°C)
Output Relay:	DPDT 10 Amp at 250 VAC
Probe:	250°F Delrin/Bare (121°C) 500°F Teflon (260°C)
Pressure:	500 psi, 3/4" mount
Sensitivity Setting:	Adjustable sensitivity to < 1 picofarad
Calibration:	"Quick Set" Coarse/fine single turn potentiometers
Fail-Safe:	Switch selectable high/low
Time Delay:	Dual delay covered/ uncovered up to 30 seconds
Enclosure:	Die cast aluminum, threaded cover, FDA recognized powder coat finish
Conduit Entry:	3/4" NPT
Mounting:	1-1/4" NPT or 3/4" NPT 316 SS
PRO-Shield:	Compensates for material buildup on sensing probe
Approval Rating:	UL listed for Class I, Groups C & D and Class II, Groups E, F & G, Hazardous Locations. Enclosure Type NEMA 4X, 5, 9 & 12. CE Mark.
Status Indicator:	Internal LED indicates material in contact with probe
Probe Options:	Delrin, Teflon, food grade, flush mount, stubby shielded, extended shielded, lagged

PROCAP I: Power	24 to 240 VAC or VDC Universal Power Supply
Ambient Temperature:	-20°F to +145°F (-28°C to +62°C)
PROCAP II: Power	115/230 VAC 50/60 Hz, 2.2VA
Ambient Temperature:	-40°F to +158°F (-40°C to +70°C)
Output Relay:	DPDT 10 Amp at 250 VAC
Probe:	250°F Delrin (121°C)
Pressure:	200 psi
Sensitivity Setting:	Adjustable sensitivity to < 1 picofarad
Calibration:	"Quick Set" Coarse/fine single turn potentiometers
Fail-Safe:	Switch selectable high/low
Time Delay:	Dual delay covered/ uncovered up to 30 seconds
Enclosure:	Die cast aluminum, threaded cover, FDA recognized powder coat finish
Conduit Entry:	3/4" NPT
Mounting:	1" or 2" Sanitary 316 SS Fitting
PRO-Shield:	Compensates for material buildup on sensing probe
Approval Rating:	UL listed for Class II, Groups E, F & G Hazardous Locations. Enclosure Type NEMA 4X, 5, 9 & 12. CE Mark.
Status Indicator:	Visual LED indicates sensor status: uncovered, covered, and power failure
Probe Options:	All Delrin sleeved style probes

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PROCAP I-FL & II-FL



PRO REMOTE



COMPACT PRO

PROCAP I:
Power: 24 to 240 VAC or VDC
Universal Power Supply

Ambient Temperature: -20°F to +145°F
(-28°C to +62°C)

PROCAP II:
Power: 115/230 VAC
50/60 Hz, 2.2VA

Ambient Temperature: -40°F to +158°F
(-40°C to +70°C)

Output Relay: DPDT 10 Amp
at 250 VAC

Probe: 150°F Standard (65°C)
450°F High Temp (232°C)

Pressure: 250 psi, flush mount

Sensitivity Setting: Adjustable sensitivity
to < 1 picofarad

Calibration: "Quick Set"
Coarse/fine single turn
potentiometers

Fail-Safe: Switch selectable
high/low

Time Delay: Dual delay covered/
uncovered up to
30 seconds

Enclosure: Die cast aluminum,
threaded cover, FDA
recognized powder
coat finish

Conduit Entry: 3/4" NPT

Mounting: Flush Mount Non-Invasive

PRO-Shield: Compensates for material
buildup on sensing probe

Approval Rating: listed for Class II,
Groups E, F & G
Hazardous Locations.
Enclosure Type NEMA
4X, 5, 9 & 12. Units also
available in Class I,
Groups C & D.

Status Indicator: Visual LED indicates
sensor status: uncovered,
covered, and power
failure

Probe Options: Flush mounted probe;
standard or high temp

Power Requirements: 120/240 VAC
50/60 Hz $\pm 15\%$, 5VA

Ambient Temperature: -40°F to + 185°F
(-40°C to +85°C)

Output Relay: DPDT 10 Amp at 250 VAC
status contacts:
3 Amps 240 VAC

Probe: 250°F Delrin/Bare (121°C)
500°F Teflon (260°C)

Pressure: 500 psi, 3/4" mount

Sensitivity Setting: Adjustable sensitivity
to < 1 picofarad

Calibration: "Quick Set"
Coarse/fine single turn
potentiometers

Fail-Safe: Switch selectable
high/low

Time Delay: Dual delay covered/
uncovered up to
30 seconds

Enclosure: Cast aluminum,
bolt-on cover FDA
recognized finish

Enclosure Electronics: Plastic

Mounting: 1-1/4" NPT or 3/4"
NPT 316 SS

PRO-Shield: Compensates for material
buildup on sensing probe

Approval Ratings Probe: Listed NEMA 4X, 5 &
12 Intrinsically Safe

Electronics: Listed Class II, Group
E, F, & G NEMA 4X, 5
and 12

Status Indicator: Internal LED indicates
material in contact with
probe

Probe Options: Delrin, Teflon, food
grade, flush mount,
flexible extension,
stubby shielded,
extended shielded,
bare shielded, lagged

Power Requirements: 120 VAC, 230 VAC,
or 24VDC

Ambient Temperature: -40°F to 185°F
(-40°C to 85°C)

Output Relay: SPDT 5 amp at 250 VAC

Probe: -40 to 240°F
(-40 to 116°C)

Enclosure: NEMA 4X, dust tight,
water resistant

Sensitivity Setting: Adjustable sensitivity to
< 1 picofarad

Calibration: Multi-turn potentiometer

Fail-Safe: Switch selectable,
high/low

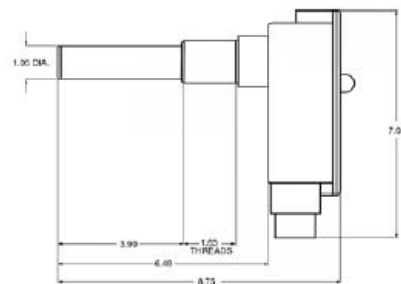
Time Delay: Adjustable 1 to 30
seconds

Enclosure: PVC

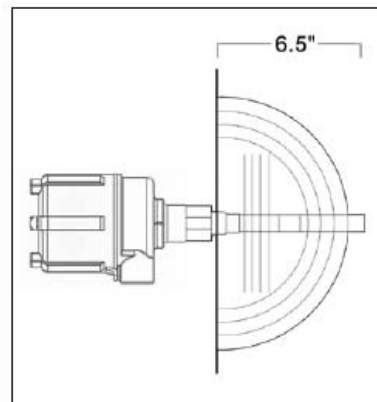
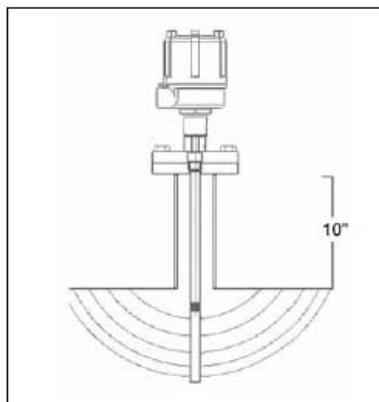
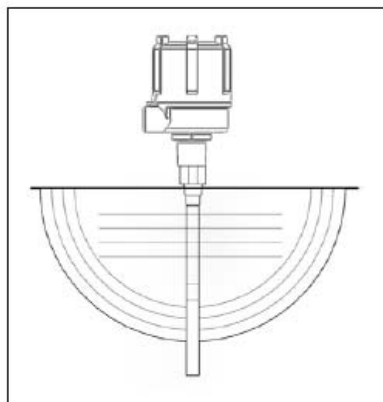
Probe: CPVC

Mounting: 1" NPS (1-1/4" NPS
adapter available)

LED: Indicates material
presence or absence



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Standard Shielded Delrin/Teflon Sleeved Probe

The standard Delrin/Teflon sleeved probe is the most versatile all-purpose probe. It works reliably in bulk solids, powders, slurries, and liquids. It has a rugged 5/8" diameter 316 SS probe featuring "PRO-Shield" protection against false readings because of coating or buildup.

Maximum Temp:	Delrin sleeved 250°F (121°C) Teflon sleeved 500°F (260°C)
Maximum Pressure:	50 psi (3.5 kg/cm ²) 1-1/4" NPT 500 psi (35 kg/cm ²) 3/4" NPT
Probe Material:	5/8" diameter 316 SS Delrin/Teflon sleeved
Lengths Available:	10.63", 18", 24", 30", 36", 48", and custom order lengths
Fitting Options:	3/4" NPT, 1-1/4" NPT, 1" food grade, 1 1/2"/3/4" 150# Raised face flanges
Power Pac Options:	PROCAP I & II PROCAP IX & IIX PRO Remote PRO Auto-Cal
Applications:	Point level detection and process control for solid, liquid and slurry materials. Used in bins, tanks, chutes, and spouts.

Extended Shield Delrin/Teflon Sleeved Probe

Designed with a 10" extended PRO-Shield, used when mounting the probe through a nozzle or standpipe. This probe has all the same features as the standard probe.

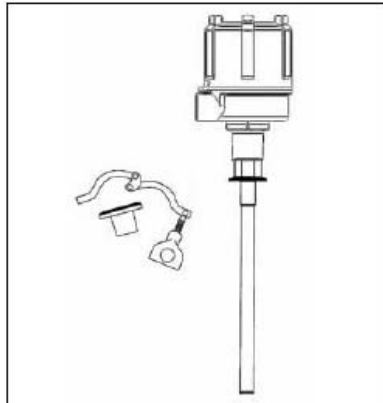
Maximum Temp:	Delrin sleeved 250°F (121°C) Teflon sleeved 500°F (260°C)
Maximum Pressure:	50 psi (3.5 kg/cm ²) 1-1/4" NPT 500 psi (35 kg/cm ²) 3/4" NPT
Probe Material:	5/8" diameter 316 SS Delrin/Teflon sleeved
Lengths Available:	15", 18", 24", 30", 36", 48", and custom order lengths
Fitting Options:	3/4" NPT, 1-1/4" NPT, 1" food grade, 1 1/2"/3/4" 150# Raised face flanges
Power Pac Options:	PROCAP I & II PROCAP IX & IIX PRO Remote PRO Auto-Cal
Applications:	Point level detection and process control for solid, liquid and slurry materials. Used when mounting probe in a nozzle or standpipe. Also can be used when excessive sidewall buildup may occur.

Stubby Shielded Delrin/Teflon Sleeved Probe

Designed with a 6.5" overall length while still providing the PRO-Shield protection. This probe is specially designed for low level applications where minimal projection is preferred due to restricted area or excessive weight that could damage a longer probe. This probe has all the same features as the standard probe.

Maximum Temp:	Delrin sleeved 250°F (121°C) Teflon sleeved 500°F (260°C)
Maximum Pressure:	50 psi (3.5 kg/cm ²) 1-1/4" NPT 500 psi (35 kg/cm ²) 3/4" NPT
Probe Material:	5/8" diameter 316 SS Delrin/Teflon sleeved
Lengths Available:	6.5"
Fitting Options:	3/4" NPT, 1-1/4" NPT, 1" food grade, 1 1/2"/3/4" 150# Raised face flanges
Power Pac Options:	PROCAP I & II PROCAP IX & IIX PRO Remotes PRO Auto-Cal
Applications:	Low level where material load on probe may cause damage or when working in a restricted area or small vessel.

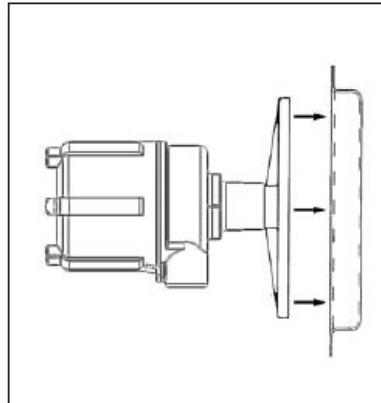
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**Shielded
Delrin Sleeved
Sanitary/3-A Probe**

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 the tank to facilitate ease of inspection and cleaning.

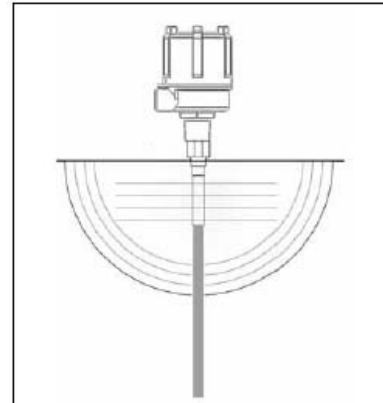
Maximum Temp:	250°F (121°C)
Maximum Pressure:	200 psi (14 kg/cm ²)
Probe Material:	5/8" diameter 316 SS Delrin sleeved
Lengths Available:	4", 6.5", 10.63", 18", 24", 30", 36", 48", and custom order lengths
Fitting Options:	1" or 2" sanitary 316 SS fitting for use with tri-clamp
Power Pac Options:	PROCAP I 3-A & II 3-A
Applications:	Point level detection and process control for solid, liquid and slurry materials. Built specifically for dairy, pharmaceutical, and food grade appli- cations where 3-A/ USDA sanitary stan- dards apply. Used in bins, tanks, chutes, and spouts.



**Flush
Mounted
Shielded Probe**

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. A special bin wall adapter is available when working with thick walls or angled hoppers to move the face of the probe flush or slightly protruding the inside of the vessel wall, eliminating false signals due to excessive buildup on the probe surface.

Maximum Temp:	150°F (65°C) standard probe 450°F (232°C) High temp probe
Maximum Pressure:	250 psi (17 kg/cm ²)
Standard Probe Material:	Polyethylene High Temp Teflon
Fitting Options:	5.75" hole mounted on 7.00" bolt circle 8.50" hole mounted on 9.50" bolt circle when using bin wall adapter
Power Pac Options:	PROCAP I & II PROCAP IX & IIX PRO Remote PRO Auto-Cal
Applications:	Detects presence of material or level of materials that may bend or break probes when material shifts. Works well in coal, aggregates, gravel, or other heavy and/or chunky materials.

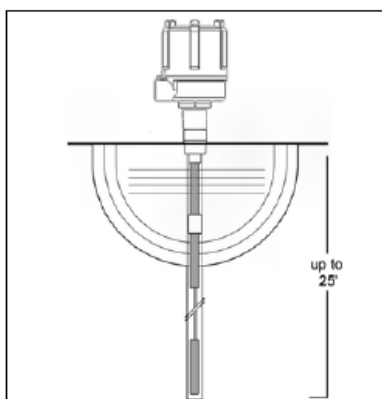


**Bare
Shielded
OEM Probe**

This is a bare shielded probe whose length can be modified in the field. It can be cut back to 7 inches or extended up to 8 feet. It has a rugged solid 5/8" diameter 316 SS probe featuring "PRO-Shield" protection against false readings because of coating or buildup.

Maximum Temp:	250°F (121°C)
Maximum Pressure:	50 psi (3.5 kg/cm ²) 1-1/4" NPT 500 psi (35 kg/cm ²) 3/4" NPT
Probe Material:	Standard probe 5/8" diameter 316 SS/Bare with Delrin insulator
Lengths Available:	7 inches to 8 feet
Fitting Options:	3/4" NPT, 1-1/4" NPT, 1" food grade, 1 1/2"/3/4" 150# Raised face flanges
Power Pac Options:	PROCAP I & II PRO Remote PRO Auto-Cal
Applications:	Point level detection and process control for powders and dry bulk solid material that may have a tendency to build up and coat the probe. Used in bins, tanks, chutes, and spouts.

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**Shielded Teflon
Sleeved 316 SS Hanging
Flexible Cable Extension**

The Teflon sleeved flexible cable extension was designed for high, mid, or low level when it is necessary to top mount. The flexible extension is also used in aggregates, coal or other lump materials that might damage a rigid probe or in materials that are not compatible with stainless steel. Maximum length of the cable and weighted probe end is 25 feet. The cable can be cut to length in the field.

Maximum Temp: 500°F (260°C)

Maximum Pressure: 50 psi (3.5 kg/cm²)
1-1/4" NPT
500 psi (35 kg/cm²)
3/4" NPT

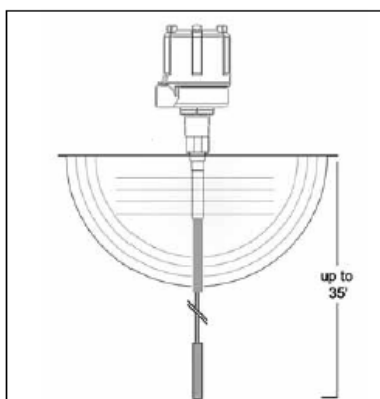
Probe Material: 316 stainless steel
1/4" diameter cable
with Teflon sleeve
and insulator

Lengths Available: 16 inches to 25 feet

Fitting Options: 3/4" NPT, 1-1/4" NPT, 1" food grade,
1 1/2"/3/4" 150#
Raised face flanges

Power Pac Options: PROCAP I & II
PROCAP IX & IIX
PRO Remote
PRO Auto-Cal

Applications: Point level detection and process control for various solid, liquid and slurry applications when top-mounting. This Teflon sleeved probe should be used in applications where conductive material may leave residue on the probe (most liquids for instance). Note: Any conductive residue which builds up from the vessel wall to the active portion of any unsleeved bare probe will short out the two conductors.



**Shielded Bare
316 SS Hanging
Flexible Extension**

The flexible cable extension was designed for high, mid, or low level when it is necessary to top mount. The flexible extension is also used in aggregates, coal or other lump materials that might damage a rigid probe. This flexible cable extension probe features "PRO-Shield" protection against false readings because of coating or buildup. The shielded probe also allows you to mount the probe in a standoff pipe or nozzle. Maximum length of the cable and weighted probe end is 35 feet. The cable can be cut to length in the field.

Maximum Temp: 250°F (121°C)
Standard probe

Maximum Pressure: 50 psi (3.5 kg/cm²)
1-1/4" NPT
500 psi (35 kg/cm²)
3/4" NPT

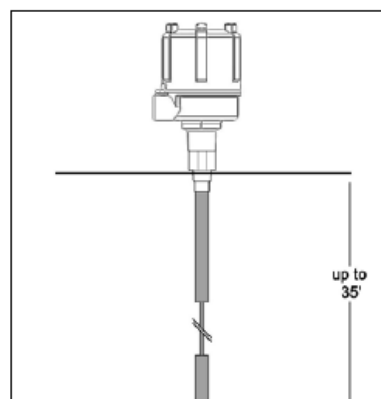
Probe Material: 316 stainless steel
1/4" diameter cable
with Delrin insulator

Lengths Available: 16 inches to 35 feet

Fitting Options: 3/4" NPT, 1-1/4" NPT, 1" food grade,
1 1/2"/3/4" 150#
Raised face flanges

Power Pac Options: PROCAP I & II
PRO Remote
PRO Auto-Cal

Applications: Point level detection and process control for various solid, liquid and slurry applications when top mounting.



**Unshielded Bare
316 SS Hanging Flexible
Cable Extension**

The flexible cable extension was designed for high, mid or low level detection when it is necessary to top mount. The flexible extension is also used in aggregates, coal or other lump materials that might damage a rigid probe. Maximum length of the cable and weighted probe end is 35 feet. The cable can be cut to length in the field.

Maximum Temp: 250°F (121°C)
Standard probe
500°F (260°C)
High temp probe

Maximum Pressure: 50 psi (3.5 kg/cm²)
1-1/4" NPT
500 psi (35 kg/cm²)
3/4" NPT

Probe Material: Standard probe
316 stainless steel
1/4" diameter cable
with Delrin insulator
High temp probe
316 stainless steel
1/4" diameter cable
with Teflon insulator

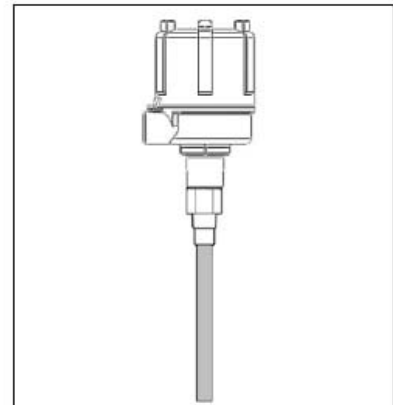
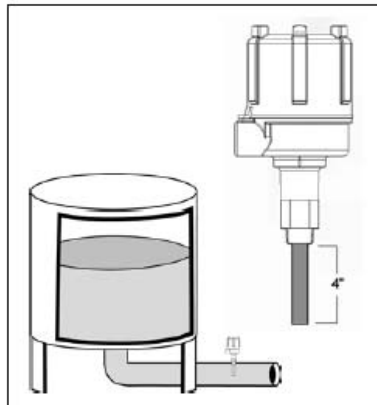
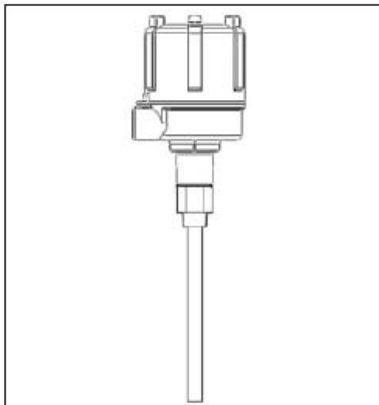
Lengths Available: 16 inches to 35 feet

Fitting Options: 3/4" NPT, 1-1/4" NPT,
1" food grade,
1 1/2"/3/4" 150#
Raised face flanges

Power Pac Options: PROCAP I & II
PRO Remote
PRO Auto-Cal

Applications: Point level detection and process control for various solid, liquid and slurry applications when top mounting.

(800) 792-7427 OR (352) 628-6674



Unshielded Delrin/Teflon Sleeved Probe

The unshielded fully insulated Delrin/Teflon sleeved probe was designed to be a lower cost, yet versatile probe. This all-purpose probe works reliably in bulk solids, powders, slurries, and liquids. It has a rugged, solid 5/8" diameter 316 SS probe.

Maximum Temp:	Delrin sleeved 250°F (121°C) Teflon sleeved 500°F (260°C)
Maximum Pressure:	50 psi (3.5 kg/cm ²) 1-1/4" NPT 500 psi (35 kg/cm ²) 3/4" NPT
Probe Material:	5/8" diameter 316 SS Delrin or Teflon sleeved
Lengths Available:	10.63", 18", 24", 30", 36", 48", and custom
Fitting Options:	3/4" NPT, 1-1/4" NPT, 1" food grade, 1 1/2"/3/4" 150# Raised face flanges
Power Pac Options:	PROCAP I & II PROCAP IX & IIX PRO Remote PRO Auto-Cal
Applications:	Point level detection and process control for solid, liquid and slurry materials. When working with powders and bulk solids, this probe works best if top mounted or side mounted in vessels with free-flowing material where excessive sidewall buildup is not present. Used in bins, tanks, chutes, and spouts.

Stubby Unshielded Delrin/Teflon Sleeved Probe

The stubby unshielded probe is designed for minimal insertion into pipes, small hoppers, and in vessels where excessive buildup is not present. Also designed for low level applications where minimal insertion is preferred due to restricted areas or excessive weight that could damage a longer probe.

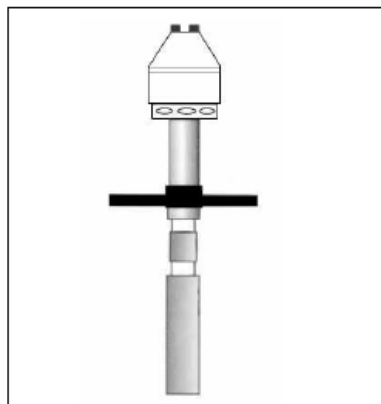
Maximum Temp:	Delrin sleeved 250°F (121°C) Teflon sleeved 500°F (260°C)
Maximum Pressure:	50 psi (3.5 kg/cm ²) 1-1/4" NPT 500 psi (35 kg/cm ²) 3/4" NPT
Probe Material:	5/8" diameter 316 SS Delrin or Teflon sleeved
Lengths Available:	4"
Fitting Options:	3/4" NPT, 1-1/4" NPT, 1" food grade, 1 1/2"/3/4" 150# Raised face flanges
Power Pac Options:	PROCAP I & II PRO Remote PRO Auto-Cal
Applications:	Designed for minimal insertion into pipes, small hoppers, vessels, or other restricted areas.

Unshielded Bare Stainless Steel Probe

An unshielded probe whose length can be modified in the field. It can be cut back to 3 inches or extended to 8 feet. The probe will work reliably in a variety of powders and dry bulk solid materials.

Maximum Temp:	250°F (121°C) Standard probe 500°F (260°C) High temp probe
Maximum Pressure:	50 psi (3.5 kg/cm ²) 1-1/4" NPT 500 psi (35 kg/cm ²) 3/4" NPT
Probe Material:	Standard probe 5/8" diameter 316 SS/bare with Delrin insulator High temp probe 5/8" diameter 316 SS/bare with Teflon insulator
Lengths Available:	3", 4", 6", 10.19", 18", 24", 30", 36", 48", 72", 96", and custom
Fitting Options:	3/4" NPT, 1-1/4" NPT, 1" food grade, 1 1/2"/3/4" 150# Raised face flanges
Power Pac Options:	PROCAP I & II PRO Remote PRO Auto-Cal
Applications:	Point level detection and process control for powder and dry bulk solids. This probe works best when top mounted or side mounted in vessels with free-flowing dry material where excessive sidewall buildup is not present. Used in bins, tanks, chutes, and spouts.

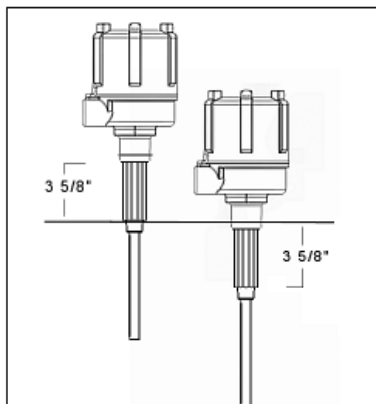
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Shielded Bare Stainless Steel/Ceramic High Temperature Probe

The high temperature PRO Remote capacitance probe is a heavy duty probe designed for applications that exceed 500°F (260°C). A stainless steel probe with ceramic inserts protects the probe from heat; remote electronics can be located up to 20 feet from the probe.

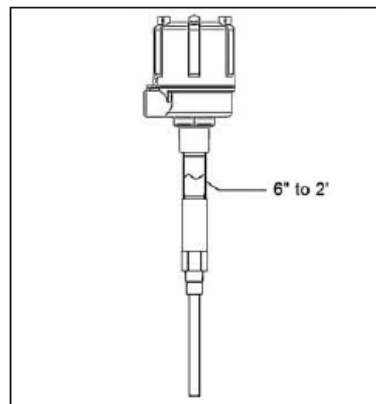
Maximum Temp:	1000°F (538°C)
Maximum Pressure:	100 psi (3.5 kg/cm ²)
Probe Material:	1-1/8" diameter 316 SS with ceramic inserts
Lengths Available:	9" (230 mm)
Fitting Options:	1-1/4" NPT
Power Pac Options:	Remote electronics only
Applications:	Point level detection and process control for solid, liquid and slurry materials. Used in bins, tanks, chutes, and spouts.



FI Fitting

The PROCAP FI stainless steel fitting is used to extend the probe 3-5/8" beyond the vessel wall to get past excessive buildup or through a thick wall. It can also be used to lag the electronics away from a heat source or clear external insulation. The extended lag fitting works with bare and Delrin sleeved probes.

Maximum Temp:	Delrin sleeved/Bare 250°F (121°C)
Maximum Pressure:	50 psi (3.5 kg/cm ²) 1-1/4" NPT 500 psi (35 kg/cm ²) 3/4" NPT
Fitting Material:	316 SS
Lengths Available:	3-5/8"
Fitting Options:	3/4" NPT to lag out, 1-1/4" NPT to lag in
Probe Options:	All Delrin sleeved, bare, and flexible probes
Power Pac Options:	PROCAP I & II PRO Remote PRO Auto-Cal
Applications:	Point level detection and process control for solid, liquid and slurry materials. Used in bins, tanks, chutes, and spouts.



Stainless Steel or Galvanized Lag

The lagged probe fitting is used to extend the probe up to 2 feet through thick vessel walls or double-walled hoppers and bins. It can be used to lag the electronics away from a heat source or to clear external insulation. Available in stainless steel or galvanized pipe.

Maximum Temp:	Delrin sleeved 250°F (121°C) Teflon sleeved 500°F (260°C)
Maximum Pressure:	50 psi (3.5 kg/cm ²) 1-1/4" NPT 500 psi (35 kg/cm ²) 3/4" NPT
Lengths Available:	6" to 24"
Fitting Options:	3/4" NPT to lag out, 1-1/4" NPT to lag in
Probe Options:	All Delrin sleeved, bare, and flexible probes
Power Pac Options:	PROCAP I & II PRO Remote PRO Auto-Cal
Applications:	Point level detection and process control for solid, liquid and slurry materials. Used in bins, tanks, chutes, and spouts.

BINMASTER

CONTACT YOUR DEALER FOR A QUOTATION OR MORE INFORMATION:



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