

## SERIES CRF2 | MERCOID CAPACITANCE LEVEL TRANSMITTER

### FEATURES/BENEFITS

- State of the art sensing technology, uses impulse RF admittance measurement which provides excellent accuracy and stability
- Comes with either a rigid or flexible probe depending on application installation need and probe length required
- Easy push button calibration of zero and span
- Any length probe can be customer ordered for any specific application
- FEP covered probe is ideal for use with corrosive media
- Immune to external RF sources like walkie-talkies and cell phones as well as minimal interference with radio communication or other electronic system



### APPLICATIONS

- Pulp and paper processing
- Chemical processing
- Food and beverage
- Aggregates
- Plastics
- Mining

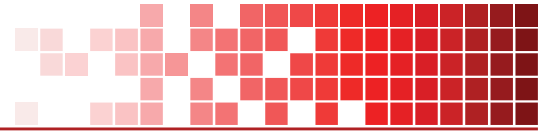
### DESCRIPTION

The **SERIES CRF2** Capacitive Level Transmitters provide a two-wire 4 to 20 mA output to indicate level of liquids, powders and bulk materials. The CRF2 senses capacitance changes resulting from the height of the material in the tank between the probe and the tank wall. In non-metallic tanks or tanks that do not have the wall parallel to the probe a ground reference must be used.

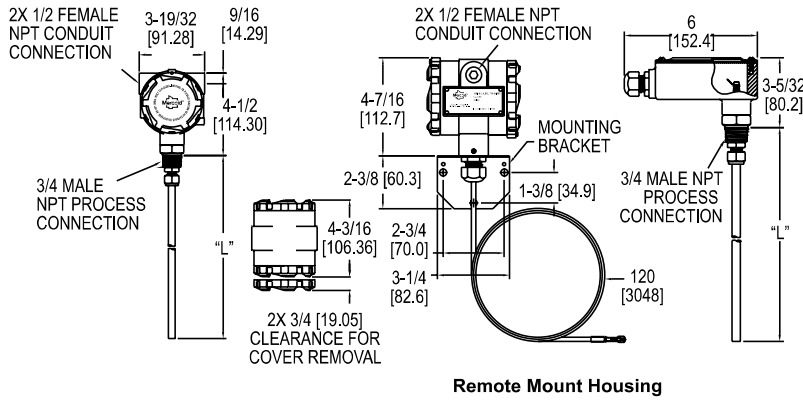
### SPECIFICATIONS

<b>Service</b>	Liquids, powders, and bulk materials compatible with wetted materials.
<b>Wetted Materials</b>	Standard: rod/cable: FEP; connection: 316 SS. Ground Option: rod/cable and connection: 316 SS; cable spacers: PVC. Flange Option: material of flange.
<b>Capacitance Range</b>	0 to 2000 pF.
<b>Sensitivity</b>	0.15 pF.
<b>Minimum Span</b>	8 pF.
<b>Accuracy</b>	±0.5 pF or ±0.25% of span, whichever is greater.
<b>Repeatability</b>	±0.25 pF or ±0.1% of span, whichever is greater.
<b>Temperature Limits</b>	Ambient: -40 to 185°F (-40 to 85°C); Process: -40 to 250°F (-40 to 121°C).
<b>Pressure Limit</b>	100 psi (6.9 bar).
<b>Power Requirements</b>	12 to 35 VDC.
<b>Output Signal</b>	4 to 20 mA or 20 to 4 mA, 2 wire.
<b>Electrical Connection</b>	0.5 s.
<b>Mounting Orientation</b>	Screw terminal.
<b>Conduit Connection</b>	1/2" NPT female.
<b>Process Connection</b>	Standard: 3/4" NPT male. Optional: 1", 1-1/2", NPT or BSPT, 1", 1-1/2", or 2" sanitary clamp, 2", 3", or 4" 316SS or PVC 150# flange.
<b>Enclosure Rating</b>	NEMA 4X (IP66) weathertight/corrosion resistant.
<b>Spark/Static Protection</b>	10 M Ohm dissipation resistance with spark gap. Surge current to 100 A max.
<b>Calibration</b>	Zero, Span, 4 mA, 20 mA.
<b>Mounting Orientation</b>	Vertical.
<b>Weight</b>	6 ft rod type: 3.6 lb (1.63 kg).

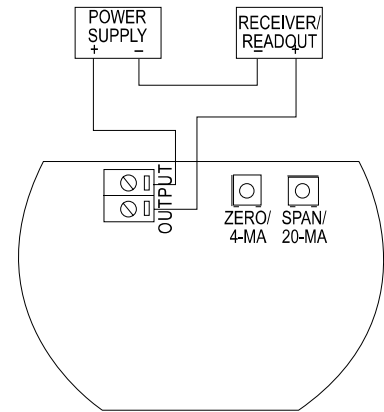




## DIMENSIONS

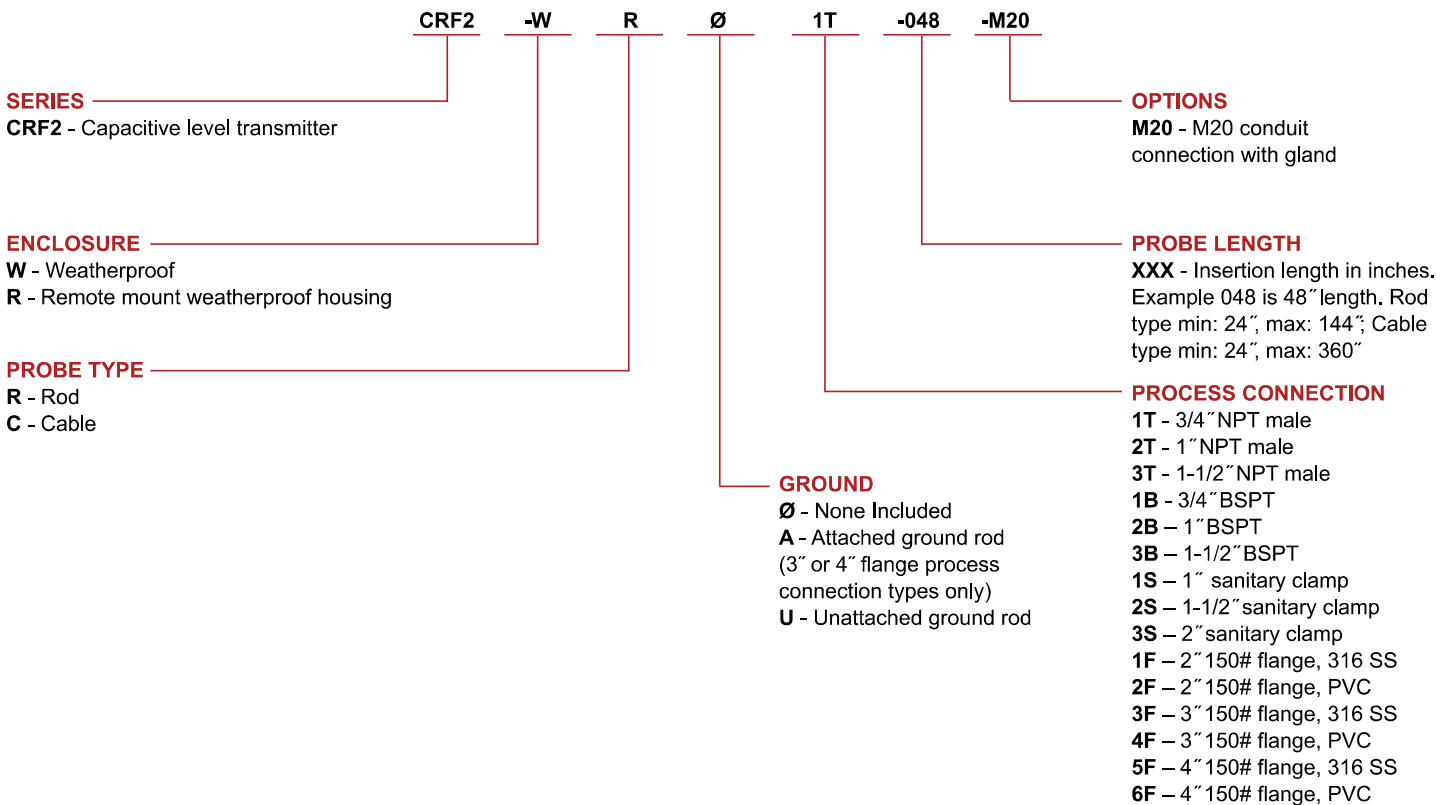


## WIRING DIAGRAM



## HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.



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