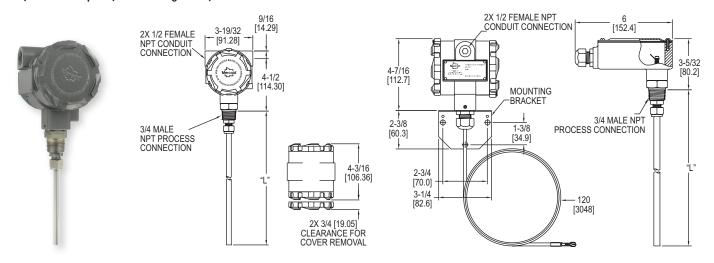
## **CAPACITIVE LEVEL TRANSMITTER**

# Powder, Bulk or Liquids, No-Moving Parts, Excellent Chemical Resistance



Remote mount housing

The Series CRF2 Capacitive Level Transmitter provides a two-wire 4-20 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.

#### 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 systems

#### **APPLICATIONS**

- · Pulp and paper processing
- Food and beverage
- Plastics

Level Transmitters,

### **SPECIFICATIONS**

Service: Liquids, powders, and bulk materials compatible with wetted materials. Wetted Materials: Standard: Rod/cable: FEP, Connection: 316 SS; Ground option: Rod/cable and connection: 316 SS; Cable spacers: PVC; Flange option: Material of

Capacitance Range: 0 to 2000 pF.

Sensitivity: 0.15 pF

Minimum Span: 8 pF.

Accuracy: ±0.5 pF or ±0.25% of span, whichever is greater. Repeatability: ±0.25 pF or ±0.1% of span, whichever is greater.

Temperature Limits: Ambient: -40 to 185°F (-40 to 85°C); Process: -40 to 250°F

(-40 to 121°C).

Pressure Limit: 100 psi (6.9 bar). Power Requirements: 12-35 VDC.

Output Signal: 4-20 mA or 20-4 mA, 2 wire.

Response Time: 0.5 s.

Electrical Connection: Screw terminal. Conduit Connection: 1/2" NPT female.

Process Connection: Standard: 3/4" NPT male; Optional: See model chart. Enclosure Rating: NEMA 4X (IP66) weather tight/corrosion resistant. Spark/Static Protection: 106 Ω dissipation resistance with spark gap. Surge

current to 100 A max.

Calibration: Zero, span, 4 mA, 20 mA. Mounting Orientation: Vertical. Weight: 6' rod type: 3.6 lb (1.63 kg)

MODEL CHART							
Example	CRF2	-W	R 0	1T	-048	-M20	CRF2-WR01T-048-M20
Series	CRF2						Capacitive level transmitter
Enclosure		W					Weatherproof
		R					Remote mount weatherproof housing
Probe			R				Rod
Type			С				Cable
Ground			0				None included
			Α				Attached ground rod (3" or 4" flange process connection types only)
			U				Unattached ground rod
Process				1T			3/4" NPT male
Connection				2T			1" NPT male
				3T			1-1/2" NPT male
				1B			3/4" BSPT
				2B			1" BSPT
				3B			1-1/2" BSPT
				1S			1" sanitary clamp
				2S			1-1/2" sanitary clamp
				3S			2" sanitary clamp
				1F			2" 150# flange, 316 SS
				2F			2″ 150# flange, PVC
				3F			3″ 150# flange, 316 SS
				4F			3″ 150# flange, PVC
				5F			4" 150# flange, 316 SS
			_	6F			4" 150# flange, PVC
Probe Length					XXX		Insertion length in inches. Example 048 is 48" length. Rod type min: 24", max: 144"; Cable type min: 24", max: 360"
Options	-0.14/5	0.47	070				M20 conduit connection with cable gland
<b>Examples:</b> CRF2-WR01T-072; CRF2-WR01T-096							