## NON-INTRUSIVE RF CAPACITANCE SENSORS

## LVP-51-R



- Detects Liquid Through Plastic or Fiberglass Tank Walls Up to 25.4 mm (1") Thickness
- ✓ SPST Relay Output Standard
- Sensor Conveniently Slides In and Out of Mounting Bracket in PE or PP
- Ideal For Many Ultrapure and Sanitary Applications
- ✓ Easy Two Step Calibration
- Selectable Normally Open or Normally Closed

TRODEX® non-intrusive RF capacitance sensors deliver accurate and reliable liquid level detection with an SPST mechanical relay output. A versatile weld-on fitting enables the sensor to be mounted directly to the wall of any standard polyethylene, fiberglass or polypropylene tank. Simply align the fitting with the tank and press it into place. An engineered adhesive holds the fitting during welding and provides a seal between the sensor and the tank wall. Omega's two-step calibration feature ensures the highest level of dielectric sensitivity.



Accuracy: ±1 mm (0.04") in water Repeatability: ±0.5 mm (0.02") in water Dielectric Range: 10 to 80 dielectric

units @ 1 MHz

Tank Compatibility: Plastic and fiberglass (non-metallic)
Tank Wall Thickness:
Up to 25.4 mm (1") maximum

Up to 25.4 mm (1") maximum Voltage Input: 12 to 36 Vdc Consumption: 25 mA maximum



Relav:

**GP**:120 Vac/Vdc @ 1 A **CE**: 60 Vac/Vdc @ 1 A

Switch Mode:

Selectable, NO or NC states

Switch Display: Single LED provides calibration and liquid status feedback Loop Resistance:  $600 \Omega$  @ 24 Vdc Maximum Temperature Rating: -40 to  $80^{\circ}$ C (-40 to  $176^{\circ}$ F)

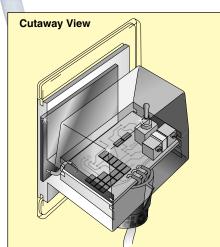
**Enclosure Material:** Polysulfone **Enclosure Rating:** 

NEMA 4 (IP65), splash proof and chemical resistant design **Std. Cable Length:** 3 m (10')

Maximum Cable Length: 305 m (1000')

**Dimensions:** 6.4 x 4.3 x 3.8 cm

(2.5 x 1.7 x 1.5")



To Order			
All sensors have FET switch and 4 or 20 mA outputs			
Model No.	Description	Matrial	Size cm (inch)
LVP-51-R	Non-intrusive capacitance sensor	PP	6.4 x 4.3 x 3.8 (2.5 x 1.7 x 1.5)
LVP-91	PE sensor fitting	PE	6.4 x 6.4 (2.5 x 2.5)
LVP-92	PP sensor fitting	PP	6.4 x 6.4 (2.5 x 2.5)

Comes complete with operator's manual and 3 m (10') cable. LVP-51-R has an SPST mechanical relay output standard.

Two extended cable lengths available. For 7.62 m (25') add suffix "-25" to model number, for additional cost. For 15.24 m (50') add suffix "-50" to model number, for additional cost.

Ordering Example: LVP-51-R sensor and LVP-92, PP sensor fitting.