

ULTRASONIC LEVEL SENSORS

LVU-150-R Series

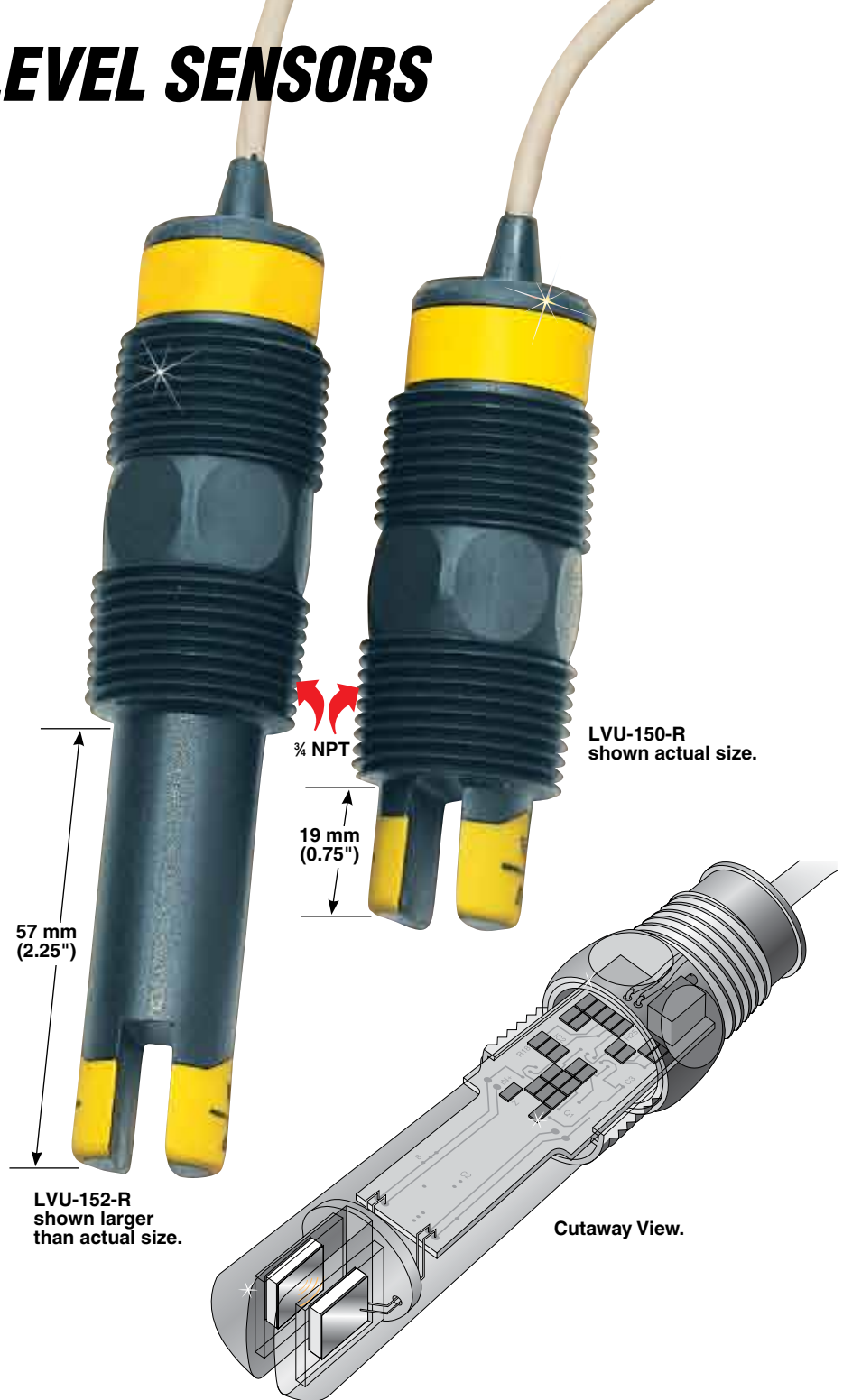


- ✓ Not Sensitive to Changes In Viscosity, Density, or Conductivity
- ✓ SPST Relay Standard
- ✓ Resists Vapor and Turbulence
- ✓ NEMA 6 (IP68) Submersible Sensor and Cable

OMEGA's ultrasonic sensors deliver accurate and reliable liquid level detection with an SPST mechanical relay output. The technology provides a high level of ultrasonic sensitivity, including resistance to vapor and turbulence. The ultrasonic sensor utilizes a fork-shaped sensor which contains two piezoelectric crystals, one of which acts as the ultrasonic transmitter, and the other as a receiver. If the air gap between the points of the fork fills with liquid, the sonic wave passes from one crystal to the other.

SPECIFICATIONS

Accuracy: ±1 mm (0.04") in water
Repeatability: ±0.5 mm (0.02") in water
Dead Band Hysteresis: 1 mm in water
Voltage Input: 12 to 36 Vdc
Current Output: 25 mA maximum
Relay:
 GP: 120 Vac/Vdc @ 1 A
 CE: 60 Vac/Vdc @ 1 A
Switch Mode:
 Selectable, NO or NC states
Wetted Materials: Polypropylene (PP) or Perfluoroalkoxy (PFA)
Temperature Rating: -40 to 90°C (-40 to 194°F)
Maximum Pressure Rating: PP: 150 psi @ 25°C (76°F) derated @ 1.667 psi per °C above 25°C (76°F)
Loop Resistance: 600 Ω @ 24 Vdc
Standard Cable Length: 3 m (10')
Maximum Cable Length: 305 m (1000')
Dimensions:
 76.2 or 114.3 L x 26.7 mm Dia. (3.0 or 4.5 x 1.05") (¾ NPT)
Enclosure Rating: NEMA 6 (IP68) submersible sensor and cable



LVU-152-R shown larger than actual size.

LVU-150-R shown actual size.

Cutaway View.

To Order			
Model No.	Description	Material	Size (inch)
LVU-150-R	Ultrasonic sensor	PP	3 x ¾ NPT
LVU-151-R	Ultrasonic sensor	PFA	3 x ¾ NPT
LVU-152-R	Ultrasonic sensor	PP	4.5 x ¾ NPT
LVU-153-R	Ultrasonic sensor	PFA	4.5 x ¾ NPT

Comes complete with operator's manual and 3 m (10') cable.
 Two extended cable lengths available. For 7.62 m (25') add suffix "-25" to model number, for PP models, or PFA models, for additional cost. For 15.24 m (50') add suffix "-50" to model number for PP models, or PFA models, for additional cost.
Ordering Examples: LVU-150-R, polypropylene ultrasonic sensor, 3 x ¾ NPT
 LVU-153-R, PFA ultrasonic sensor, 4.5 x ¾ NPT.