

ULTRASONIC LIQUID LEVEL SWITCHES

LVU-230/260 Series
Starts at

\$471



MADE IN
USA



RoHS

- ✓ 1000:1 Wet-to-Dry Ratio with 316 SS Machined Body Sensor
- ✓ Epoxy Painted Enclosure
- ✓ No Calibration or Special Installation Requirements
- ✓ AC or 9 to 42 Vdc Powered Models
- ✓ Standard $\frac{3}{4}$ NPT Fittings

The LVU-230 and LVU-260 liquid level switches are the ideal solution to a host of liquid-level sensing and control applications. Their small size and standard $\frac{3}{4}$ NPT fittings make them suitable for new or existing applications. The LVU-230 models have a relay output along with a 316 SS or Kynar® sensor and an integral miniaturized, encapsulated electronic control unit mounted in a cast aluminum, explosion-proof, watertight enclosure. The LVU-260 is a 2-wire, 4 or 20 mA output system.

Both use an ultrasonic wave propagation sensor mounted in the liquid medium. The electronics generates a continuous wave ultrasonic signal that completely illuminates the liquid-sensing area. The absence of liquid in the sensing area causes the ultrasonic signal to dissipate, which the electronics senses as a "dry" condition (and provides a 4 mA output signal in the LVU-260). When liquid is present, the amplitude of the ultrasonic signal increases, indicating a "wet" condition. This signal is converted by the electronics and energizes the 10 A relay (LVU-230) or a 20 mA output signal (LVU-260). The LVU-230 electronics may be set to provide the control output to an alarm, pump, or other device on either a dry or wet condition.

SPECIFICATIONS

Repeatability: 2 mm (0.08") typical

Delay (On): 0.5 s

Input Power:

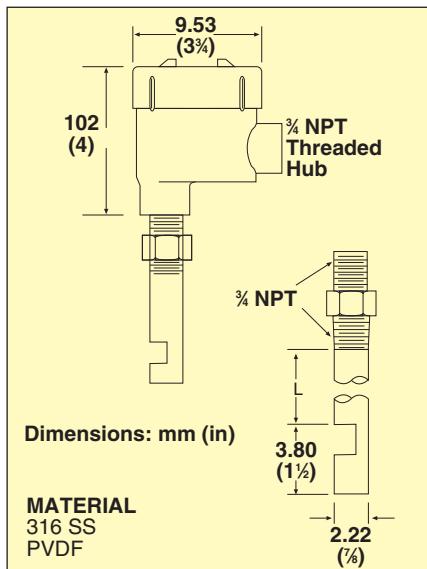
LVU-230: 115 Vac 50/60 Hz standard; 230 Vac 12 Vdc, or 24 Vdc (optional)

LVU-260: 9 to 30 Vdc

Outputs:

LVU-230: 10 A DPDT

LVU-260: Low-level fail-safe: 4 ± 1 mA dry; 20 ± 1 mA wet; high level: 20 ± 1 dry, 4 ± 1 wet



LVU-230S, \$489,
shown smaller than actual size.

Housing: NEMA 4/NEMA 7 watertight, explosion-proof enclosure, cast aluminum Class I, Group C and D, Class II, Groups E, F and G; and Class III, Division I and 2

Sensor Material:

LVU-230S, LVU-260S: 316 SS
LVU-230K, LVU-260K: PVDF

Temperature:

Sensor: -40 to 148°C
(-40 to 300°F)

Electronics: -4 to 77°C
(-20 to 170°F)

Operating Pressure: Up to 1000 psig

Mounting: $\frac{3}{4}$ NPT standard

Weight: 453 g (1 lb)

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

115 Vac Power		9 to 30 Vdc Power		Immersion Length
Model No.	Price	Model No.	Price	cm (in)
Stainless Steel				
LVU-230S	\$489	LVU-260S	\$471	7.62 (3)
LVU-231S	489	LVU-261S	478	15.24 (6)
LVU-232S	510	LVU-262S	492	30.48 (12)
LVU-233S	524	LVU-263S	506	45.72 (18)
LVU-234S	538	LVU-264S	520	60.96 (24)
LVU-235S	565	LVU-265S	548	91.44 (36)
PVDF				
LVU-230K	\$803	LVU-260K	\$786	7.62 (3)
LVU-231K	817	LVU-261K	800	15.24 (6)
LVU-232K	845	LVU-262K	827	30.48 (12)
LVU-233K	873	LVU-263K	855	45.72 (18)
LVU-234K	901	LVU-264K	883	60.96 (24)
LVU-235K	956	LVU-265K	939	91.44 (36)

Comes complete with operator's manual. Other materials and lengths (up to 120") available. Consult OMEGA's Engineering Department.

For 230 Vac operation, add suffix "-230V" to model number, and add \$58.

For 24 Vdc operation, add suffix "-24V" to model number, no additional cost.

For 12 Vdc operation, add suffix "-12V" to model number, and add \$58.

Ordering Examples: LVU-265S, 316 stainless steel, 2-wire, 4 to 20 mA output sensor, 91.44 cm (36") sensor immersion length, \$548.

LVU-230S, 316 SS sensor with 10 A relay, \$489.

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