

# CRYOGENIC TEMPERATURE LIQUID LEVEL SWITCH

LVUC10 Series  
Starts at

**\$841**



- ✓ 1000: 1 Wet to Dry Ratio with Standard
- ✓ Miniaturized Encapsulated Electronics
- ✓ No Calibration or Special Installation Requirements
- ✓ Cryogenic Temperature Down to -184°C (-300°F)

The LVUC10 liquid level switch is the ideal solution to a host of liquid level sensing applications at cryogenic temperatures. It uses proven ultrasonic technology to operate in virtually any liquid, regardless of viscosity or aeration. Its small size and standard ¼ NPT mounting make it the perfect choice for new or existing applications.

The LVUC10 consists of a 316 SS sensor and an integral miniaturized, encapsulated electronic control unit which is mounted in a cast aluminum, explosion-proof, watertight enclosure. It can be either integral or remotely mounted.

## SPECIFICATIONS

**Repeatability:** 2 mm typical

**Delay (On):** 0.5 seconds (typical) varies with cryogenic temperature

### Input Power:

**Standard:** 115 Vac

**Optional:** 230 Vac 50/60 Hz, 12 or 24 Vdc

**Outputs:** 10A DPDT relay standard, 8.0 ± 1.0mA-dry, 20.0 ± 1.0 mA-wet

**Housing:** NEMA 7 watertight, explosion-proof enclosure. Cast Aluminum Class I, Group C & D, Class II, Group E, F, & G; and Class III, Division 1 & 2

### Housing Dimensions:

13 mm (5.17") H x 95.3 mm (3.75") diameter, conduit entry ¼ NPT

**Sensor Material:** Epoxy tip with 316SS hermetically sealed fitting

### Sensor Cable Length:

3 m (10') standard

### Sensor Dimensions:

57.1 mm (2.25") L, 12.7 mm (0.5") outside diameter, 9.5 mm (0.375") tip diameter, 3 mm (0.125") gap width



LVUC11, \$841, shown smaller than actual size.

### Temperature Range:

**Sensor:** -240 to 71°C (-400 to 160°F)

**Electronics:** -29 to 77°C (-20 to 170°F)

### Pressure:

**Operating:** Up to 68.9 bar (1000 psig)

**Process Connection:** ¼ NPT standard

**Weight:** 0.45 kg (1 lb) approximate

**MOST POPULAR MODEL HIGHLIGHTED!**

To Order (Specify Model Number)			
Model No.	Price	Output	Electronics
<b>LVUC11</b>	<b>\$841</b>	10 A DPDT Relay	Integral -73°C (-100°F)
LVUC12	841	4 mA = Dry 20mA = Wet	Integral -73°C (-100°F)
LVUC11-R	899	10 A DPDT Relay	Remote -184°C (-300°F)
LVUC12-R	899	4 mA = Dry 20 mA = Wet	Remote -184°C (-300°F)

## Accessories

Model No.	Price	Description
70A-1	\$18	Continuous tone alarm
CS-3766	100	Reference Book: Sensor Technology Handbook

Comes complete with operator's manual.

For 24 Vdc power, add suffix "-24VDC" to model number, no additional charge.

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

For longer sensor length (bottom of thread to tip of probe), contact Flow Engineering.

**Ordering Examples:** LVUC11, integral mount 10 A liquid level switch, \$841.

LVUC11-R, 10 A level switch with remote mount electronics, \$899.

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