

# CONDUCTIVE LEVEL CONTROLLERS

## LVCN4000 Series



LVCN4231-36-48-ETFE, shown smaller than actual size.

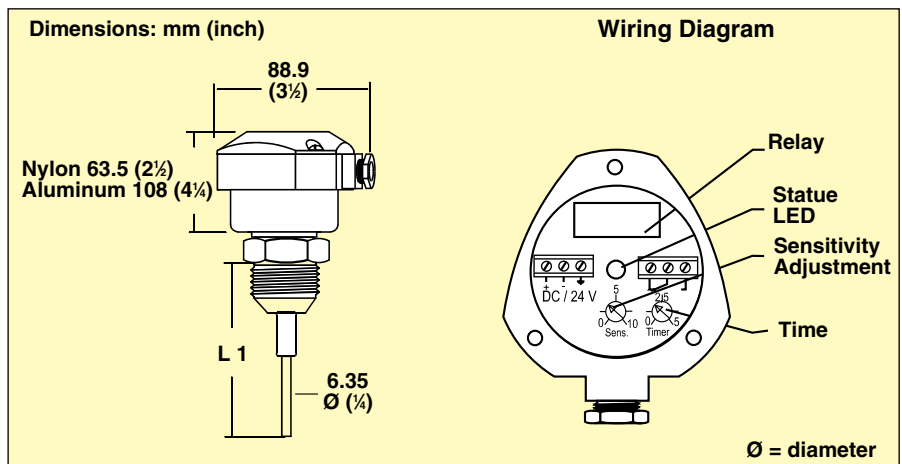
LVCN4121-48-ETFE, shown smaller than actual size.

- ✓ Accurate and Reliable Measurement
- ✓ Easy Installation
- ✓ Rugged Construction
- ✓ No Moving Parts
- ✓ 100 to 2000 mm (0.33 to 6.5') Rod Lengths Available
- ✓ Rod Can be Cut in the Field
- ✓ ECTFE/ETFE Coating Available



The LVCN4000 Series conductive level switch controllers offer a wide range of customized options to meet any application's need. They are designed to control the level of all conductive media with up to 2 different points of level control.

The LVCN4100 Series has a single rod and is able to control one point of level. The LVCN4200 Series can accommodate up to 2 rods and is able to control 2 points of levels. Both models feature a 24 Vdc power supply and an internal relay that substitutes for an external relay. As with other conductive probes, the rods for these 2 models can be custom-cut and made with any process connection, such as threaded or sanitary. In addition, the electrodes operate on alternating current to prevent electrolyses.



## SPECIFICATIONS

**Power Supply:** 24 Vdc ( $\pm 10\%$ )

**Current Consumption:** Maximum 2 VA

**Temperature Range:**

**316 SS:** -10 to 82°C (-14 to 180°F)

**ETFE:** -10 to 120°C (-14 to 248°F)

**Maximum Pressure:** 290 psi (20 bar)

**Wetted Materials:** 316 SS

**Enclosure Material:** Glass-filled

nylon standard, aluminum optional

**Electrical Connection:**

Cable entry and ½ NPT conduit

**Process Connection:**

½, ¾, 1, 1½ NPT; Tri-Grip™ (Tri-Clamp® compatible) or flange

**Output:** 5 A SPDT relay (250 Vac maximum)

**Time Delay:** 0.1 to 5 seconds nominal

**Sensitivity Adjustment:** 0.5 to 50 kΩ (potentiometer)

**Electrodes:** 316 SS

**Electrode Length:**

100 to 2000 mm (3.9 to 6.5')

**Output Voltage of Electrodes:**

12V to 100 Hz

**Weight:** Approx. 2.7 kg (6 lb) for 1.2 m (4')

**Protection Class:** NEMA 4 (IP65)

## To Order

Model No.	Description of Capacitance Transmitter with 4 to 20 mA Output Standard
LVCN4121-48-ETFE	1 rod, ¾ NPT, 48" L, ECTFE/ETFE coated, maximum temperature 120°C (248°F), approx 680 g (1.5 lb)
LVCN4231-36-48-ETFE	2 rods, 1 NPT, 36" L rod and 48" L rod, ECTFE/ETFE coated, 120°C (248°F) approx 1.0 kg (2.3 lb)

## Custom Models Available\*

Model No.	Description
LVCN41(A)(B)-(C)	Custom conductive level controller, single rod, select process connection (A), enclosure (B), and rod length in inches (C)
LVCN42(A)(B)-(C)	Custom conductive level controller, dual rod, select process connection (A), enclosure (B), and rod length in inches (C)

\* Rods must be coated when using the probes above 82°C (180°F). All conductive applications must have a reference point, such as the metallic tank wall or another rod for non-metallic tanks.

## Options

Ordering Suffix	Description
<b>A-Process Connection</b>	
1	½ NPT thread
2	¾ NPT thread
3	1 NPT thread
4	1½ NPT thread
5	1.5" Tri-Grip™, sanitary
6	2" flange, ANSI, 150# 316 SS
7	¾" BSP thread
8	1" BSP thread
<b>Others</b>	Consult Engineering with details
<b>B-Enclosure</b>	
1	Glass-filled nylon with ½ NPT conduit and cable gland
2	Aluminum die cast with ½ NPT conduit entry
3	Aluminum die cast with cable gland
<b>C-Rod Length</b>	
<b>Specify Inches</b>	Rod length (inch), 96" maximum
<b>Other Options</b>	
<b>-ETFE</b>	ECTFE/ETFE probe coating

Comes complete with operator's manual.

**Ordering Examples:** LVCN4121-48-ETFE, 1-rod (48") level controller, PSU-93, unregulated power supply, 70A-1, alarm.

LVCN4231-36-48-ETFE, 2-rod (36 to 48") level controller.

## Accessories

Model No.	Description
70A-1	Continuous tone alarm
TX4-100	30.5 m (100') spool of 4-conductor wire
PSU-93	Unregulated 24 Vdc power supply



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