

TWO WIRE LIQUID LEVEL FLOAT TRANSMITTER

LVR50 Series
Starts at
\$564



- ✓ **Stainless Steel Construction for a Full Range of Chemically Compatible Liquids**
- ✓ **Ideal for Use in Chemicals with a Specific Gravity of 0.75 or Greater**
- ✓ **Rugged Enclosure Rated NEMA 4X (IP65) for General Purpose or NEMA 7 (IP65) for Hazardous Areas**
- ✓ **Continuously Monitor Liquid Levels with Proportional 4 to 20 mA Output**

APPLICATION VARIABLES

	Variable		
	Yes	No	
Liquid	General Purpose	✓	
	Intrinsically Safe		✓
	Conductive	✓	
	Non-conductive	✓	
	Δ Conductivity	✓	
	Foam	✓	
	Vapors	✓	
	Δ Gas Density	✓	
	Contact	✓	
	Clean	✓	
	Dirty		✓
	Non-coating	✓	
	Ambient Pressure	✓	
	Low Pressure	✓	
	Medium Pressure	✓	
	Coating		✓
	Non-contact		✓
	Integral Relay		✓
	Vacuum	✓	

A single float is attached to a stainless steel rod, which is installed through the top of the tank. Internal to the rod is a series of reed switches designed to open and close as the float changes with the liquid level. The internal magnets within the float will open or close the reed switches in a "2-3-2 at-a-time" sequence, which enables the transmitter to provide accurate level indication. With every movement of the float, either one additional switch closes or opens providing a 4 to 20 mA output.

SPECIFICATIONS

Range: 12.7 cm to 1.8 m (5" to 72")

Accuracy: 6.35 mm (0.25")

over span in water

Specific Gravity: 0.75 minimum

Orientation: ±30° from vertical

Supply Voltage:

LVR50-PP Series: 10 to 30 Vdc

LVR50 Series: 10 to 40 Vdc

Loop Resist.: 600Ω @ 24 Vdc

Signal Output: 4 to 20 mA, two-wire

Signal Invert: 4 to 20 or 20-4 mA

Process Temp.: -40 to 149°C

(-40 to 300°F)

Electronic Temp.: -40 to 71°C

(-40 to 160°F)

Pressure: 300 psi maximum;

-15 psig minimum

Enclosure Rating:

LVR50-PP Series: NEMA 4X (IP65)

LVR50 Series: NEMA 7 (IP65)

Installed Height:

LVR50-PP Series: 13.2 cm (5.2")

LVR50: 15.7 cm (6.2")

Encl. Material:

LVR50-PP Series: PP, UL94VO

LVR50 Series: Aluminum

Guide/Float Mat.: 316 SS

Process Mount: 2 NPT

Conduit Entrance: Single, ½ NPT

Classification:

LVR50-PP: General purpose

LVR50 Series: Explosion proof

CE Compliance: EN 50082-2 immunity

EN 55011 emission

Approvals:

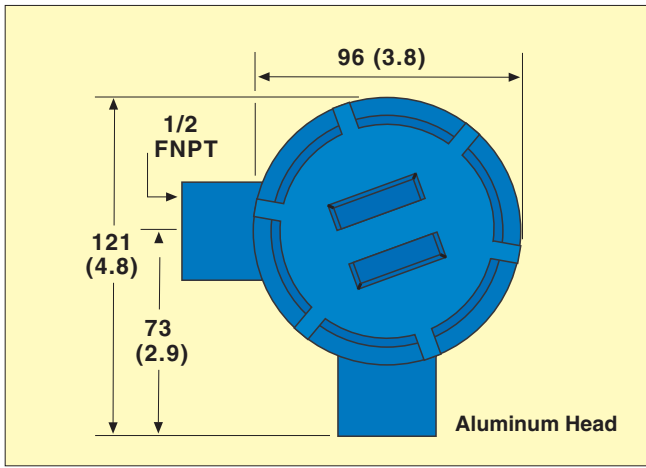
LVR50Series: FM: Class I, Division I,

Groups B, C & D; Class II,

Groups E, F and G Groups E, F and G



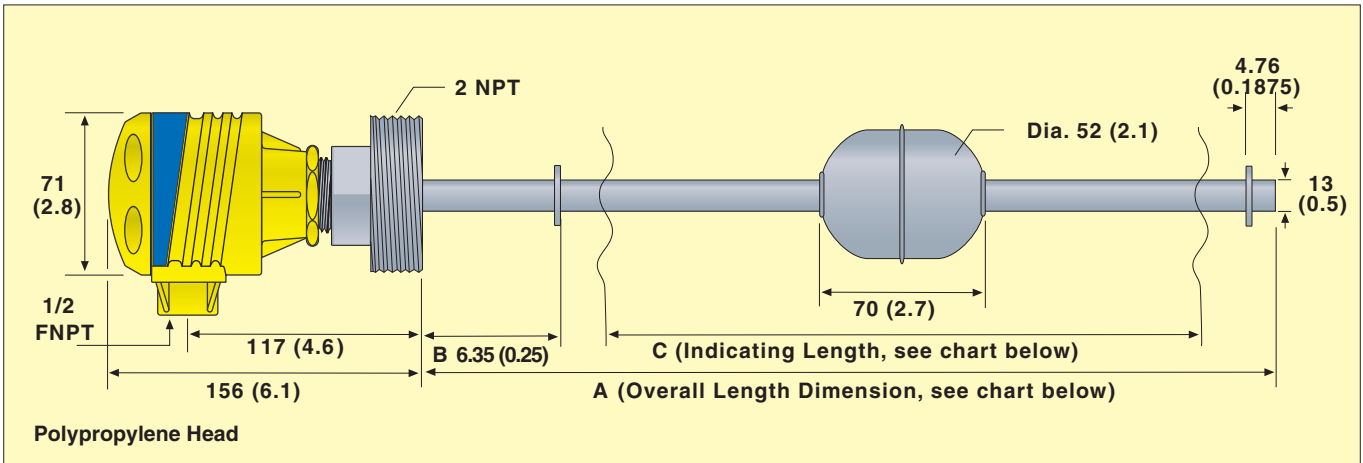
LVR51-PP, \$564, shown smaller than actual size.



Dimensions: mm (in)



iSeries DPi8, \$240, ordering information below. See page M-37 for details.



MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)				
Model No.	Price	Description for the 4 to 20 mA Level Transmitter		
		Indicating Length C Dimensions in m (ft)	Overall Length A Dimension in m (ft)	Material of Head
LVR51	\$664	0.3 (1)	0.396 (1.3)	Aluminum
LVR51-PP	564	0.3 (1)	0.396 (1.3)	Polypropylene
LVR52	808	0.6 (2)	0.701 (2.3)	Aluminum
LVR52-PP	708	0.6 (2)	0.701 (2.3)	Polypropylene
LVR53	952	0.9 (3)	1.00 (3.3)	Aluminum
LVR53-PP	852	0.9 (3)	1.00 (3.3)	Polypropylene
LVR54	1096	1.2 (4)	1.31 (4.3)	Aluminum
LVR54-PP	996	1.2 (4)	1.31 (4.3)	Polypropylene
LVR55	1240	1.5 (5)	1.62 (5.3)	Aluminum
LVR55-PP	1140	1.5 (5)	1.62 (5.3)	Polypropylene
LVR56	1384	1.8 (6)	1.92 (6.3)	Aluminum
LVR56-PP	1284	1.8 (6)	1.92 (6.3)	Polypropylene

Accessories

Model No.	Price	Description
PSU-93	\$40	Unregulated 24 Vdc power supply
DPi8	240	1/8 DIN panel meter with 24 Vdc excitation, see page M-37 for details
TX4-100	35	30.5 m (100') spool of 4 conductor wire
VT-1004-VHS	99	Reference Video: Visual Lever Sensors

Comes complete with operator's manual.

Ordering Examples: LVR51, 0.3 m (1') indicating length level transmitter with aluminum head, \$664.

LVR52-PP, 0.6 m (2') indicating length level transmitter with polypropylene head, \$708.

omega.co.uk[®]

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622 | Sales@omega.co.uk

www.omega.co.uk



UNITED STATES

www.omega.com

1-800-TC-OMEGA
Stamford, CT.

CANADA

www.omega.ca

Laval(Quebec)
1-800-TC-OMEGA

GERMANY

www.omega.de

Deckenfronn, Germany
0800-8266342

UNITED KINGDOM

www.omega.co.uk

Manchester, England
0800-488-488
+44-(0)161-777-6611

FRANCE

www.omega.fr

0800-466-342

BENELUX

www.omega.nl

0800-099-33-44



More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters