LEVEL TRANSMITTER
WITH BUILT-IN STILLING WELL

LVCN-80

1 YEAR WARRANTY

- 2-Wire Level Transmitter with 4 to 20 mA Output
- Accurate and Reliable Level Measurement from 0.3 to 3.0 m (1 to 10')
- Low-Cost Solution for Broad Range of OEM Applications
- Not Influenced by Changing Liquid Conductivity or Dielectric Values
- All-Plastic Construction with Polypropylene Materials
- True Union Interface with Standard PP, PVC, or PVDF Pipe Sections
- Standard Pipe Sections May be Easily Cut to Length and Assembled in Minutes
- Automatic Temperature Compensation Over Entire Range

APPLICATION

The LVCN-80 level transmitter is the low-cost OEM and process solution to continuous level measurement. The transmitter is best applied in atmospheric vessels that contain non-coating or scaling-type liquids, including water, acid, and chemical solutions. The measurement tube also serves as a built-in still well to help separate the point of measurement from any surface foam caused by process agitation. Industrial liquid examples include sulfuric acid, ultra-pure water, and nitric acid.

A sound wave is pulsed 5 times per second from the base of the transducer. The sound wave travels down the measurement tube and reflects against the process medium before returning to the receiver. The electronics measure the time of flight between the sound generation and the receipt, and translates this figure into the distance between the transmitter and the process medium below.

SPECIFICATIONS

Range: 0.3 to 3 m (1 to 10')
Accuracy: ±1% of span
Resolution: 3 mm (0.125")
Frequency: 2 kHz (nominal)
Pulse rate: 5 pulses/second
Blocking Distance: 51 mm (2") minimum
Supply Voltage: 12 to 36 Vdc
Signal Output: 4 to 20 mA
Signal Invert: 4 to 20 mA/20 to 4 mA
Adjustment: Potentiometer
Indication: Power status
Temperature Rating: -20 to 60°C (-4 to 140°F)
Temperature Compensation: Automatic over entire range
Pressure Rating: Atmospheric
Pipe Interface: ½"
Pipe Material: PVC, PP or PVDF
Enclosure Rating: NEMA 4X (IP65)
Enclosure Mat'l: Polypropylene
Mounting Threads: 1 NPT
Conduit Connection: ½ NPT
Thread Material: Polypropylene
Diaphragm Material: Polyethylene

DISCONTINUED

LVCN-80-12" shown smaller than actual size.

APPLICATION VARIABLES

	Variable	Yes	No
Liquid	Foam		✓
	Conductive	✓	
	Non-Conductive	✓	
	Δ Conductivity	✓	
	Contact		✓
	Non-Contact	✓	
	Clean	✓	
	Dirty	✓	
	Non-Coating	✓	
	Vapors		✓
	Δ Gas Density		✓
	Vacuum		✓
	Ambient Pressure	✓	
	Low Pressure		✓
	Medium Pressure		✓

CUSTOM MODELS BUILT TO ORDER!

To Order	
Model No.	**Description**
LVCN-80-(*)	2-wire transmitter, PVC, specify length
LVCN-81-(*)	2-wire transmitter, PP, specify length
LVCN-82-(*)	2-wire transmitter, PVDF, specify length

Accessory	
Model No.	**Description**
LVCN-51†	Continuous relay controller with LED display

Comes complete with operator's manual.

*† For model with CE approval, add suffix **"-CE"** to model number for additional cost.*

CE-approved configuration complies with EN50082-2 immunity, EN55011 emission and EN 61010-1 safety standards.

Product is available in lengths from 1 to 10' in ½" increments. The length must be specified with the model number (example: LVCN-80-64.00") at the time of your order. For PVC or PP, additional cost per foot for each foot or portion thereof up to 10'. For PVDF, additional cost per foot for each foot or portion thereof up to 10'. The length is measured from the top of the threads to the tip of the probe.

***Ordering Examples: LVCN-80-36,** two-wire transmitter, PVC 3'.*
***LVCN-80-12,** two-wire transmitter, PVC 1'*