# LEVEL TRANSMITTER WITH BUILT-IN STILLING WELL



- ✓ 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: 1/2" 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

LVCN-80-12", \$410. shown smaller than actual size.

#### APPLICATION VARIABLES

	Variable	Yes	No
Fidula	Foam		1
	Conductive		
	Non-Conductive	1	
	<ul> <li>Conductivity</li> </ul>	1	
	Contact		
	Non-Contact	1	
	Clean	1	
	Dirty		
	Non-Coating		
	Vapors		
	Gas Density		
	Vacuum		
	Ambient Pressure	1	
	Low Pressure		
	Medium Pressure		

### **CUSTOM MODELS BUILT TO ORDER!**

To Order (Specify Model Number)				
Model No.	Price			
LVCN-80-(*)	\$410	2-wire transmitter, PVC, specify length		
LVCN-81-(*)	410	2-wire transmitter, PP, specify length		
LVCN-82-(*)	490	2-wire transmitter, PVDF, specify length		

Accessory				
Model No.	Price	Description		
LVCN-51 <sup>†</sup>	\$450	Continuous relay controller with LED display		
Compa complete with operator's manual				

Comes complete with operator's manual.

+ For model with CE approval, add suffix "-CE" to model number, and \$50 to price. 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 1/2" increments. The length must be specified with the model number (example: LVCN-80-64.00") at the time of your order. The above mentioned prices are based on a 12" length. For PVC or PP, add **\$10** per foot for each additional foot or portion thereof up to 10'. For PVDF, add **\$40** per foot for each additional 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-80-72", two-wire transmitter, PVC 6', \$410 + 60 = \$470. LVCN-80-12", two-wire transmitter, PVC 1', \$410.

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