

L95 SERIES HYDROSTATIC LEVEL TRANSMITTER



DESCRIPTION

The L95 Series Level Transmitters make use of high-performance silicon piezoresistive pressure sensors as the lead sensing element. The transmitter measures the vertical depth of a column of liquid and converts this depth into standard amplified analog signals.

The L95 Series are IP68-rated devices, featuring a fully-sealed structure and made from 304 stainless steel. The cable used in these transmitters is anti-oil, waterproof, and electromagnetic effect-shielded.

This device has a fully integrated structure with sensing element and signal conditioning circuit located and sealed in the probe housing. In application, the transmitter is submerged in the measured liquid with no external adjustment or calibration needed.

APPLICATIONS

- Level measurement
- Hydraulic monitoring in rivers and sea
- Muddy liquid level measurement
- Water treatment
- Water diversion projects

FEATURES

- High Performance silicon piezoresistive sensor
- Durable with 304 Stainless Steel construction
- Pressure ranges up to 200m h20
- IP68 Rated



PERFORMANCE SPECIFICATIONS

Parameter	Value
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General

Pressure Range	0.5 - 200mH2O
Overpressure	1.5xFS

Environmental

Operating Temp. Range	0 to +70°C
Compensated Temp. Range	0 to +60°C
Storage Temp. Range	-40 to +125°C
Vibration	10g(20 to 2000Hz)
Shock	100g(10ms)
Cycles	10x106cycles

Electrical

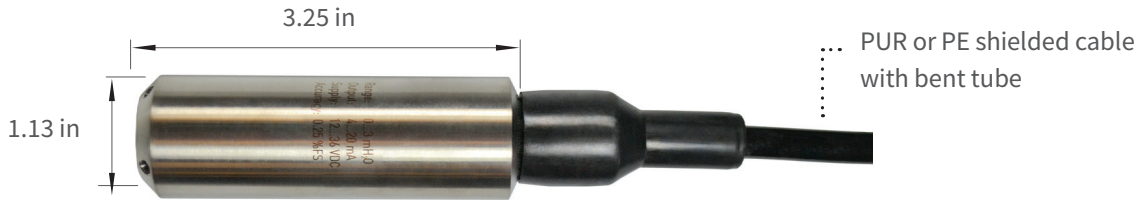
Output Signal	4 - 20mA
Power Supply(Vs)	12....36Vdc
Load Resistance	<(Vs-12)/0.02A
Insulation Resistance	100MΩ@50Vdc

Physical Specifications

Housing	304 stainless steel
Diaphragm	316L stainless steel
Seal Ring	Viton or NBR
Oil Filling	Silicone oil
Protection	IP68

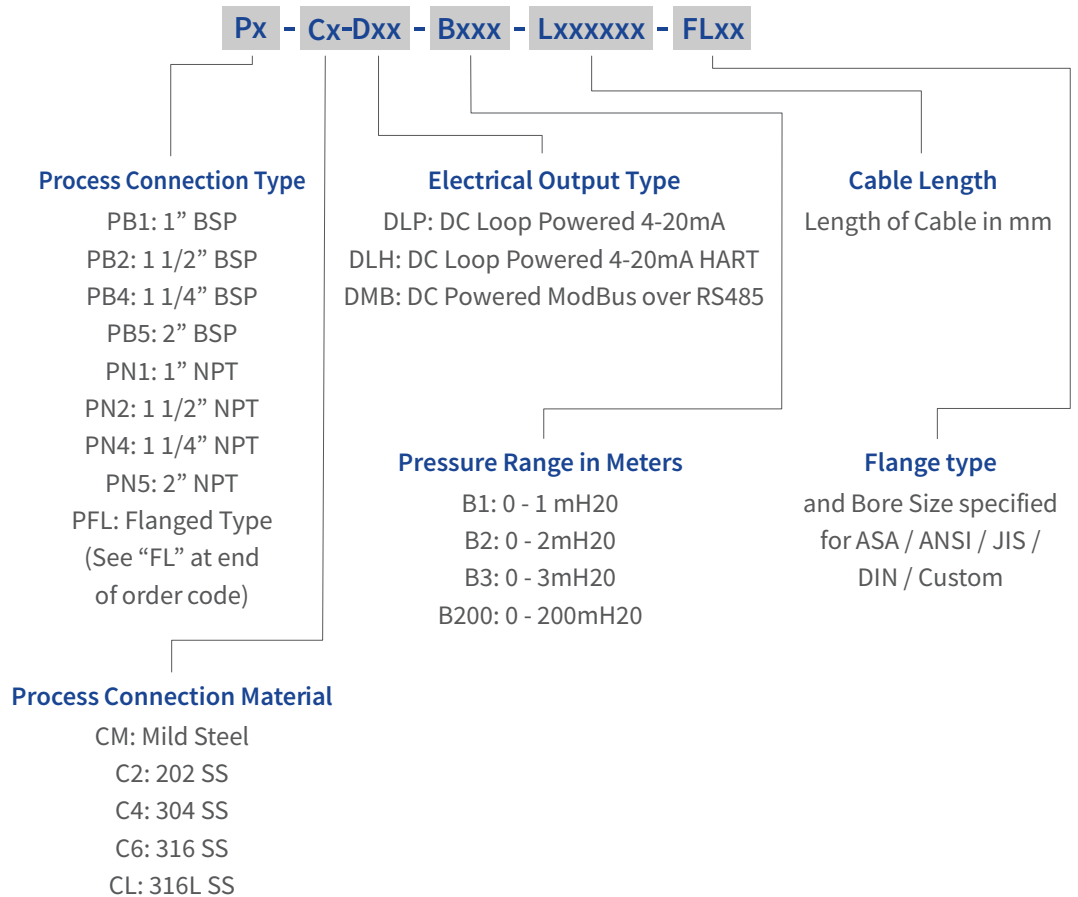
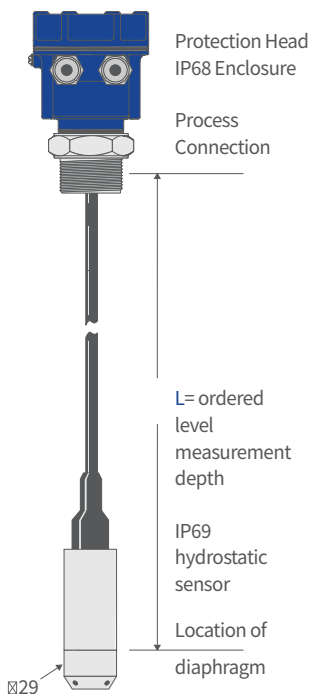
Parameter	Min.	Typical	Max.
Accuracy[%F SO]	0.1	0.25	0.5
Temp Coeff - Zero[%FSO]		±0.75	±1.5
Temp Coeff - Span[%FSO]		±0.75	±1.5
Long-Term Stability[%FSO/year]		±0.2	±0.3

DIMENSIONS



ORDER GUIDE

L95 Series Hydrostatic Level Transmitter



SAFETY INSTRUCTIONS

- To avoid operator hazards and damages to the device, please only operate under the supervision of qualified personnel.
- Non-observance of the operating manual, inappropriate use, or any modification or damage will result in void of any applicable warranties.
- Permissible media are liquids (no solids and frozen media), specified in the data sheet. In addition, application media must be compatible with product wetted parts.
- Installation of this device should only be done in depressurized and currentless environments.
- Handle this device with care at all times.
- During installation and operation, prevent mud and sand from blocking the reference tube. This may impact performance of the transmitter.

FAILURE IDENTIFICATION

The L95 Level Transmitter is a fully-integrated sensing device providing long-term stability and reliability across a range of end-user applications. In the event of an inaccurate reading, turn off electrical connection and check the installation and wire connections to confirm they are in accordance with those specified in this manual. Also confirm reference tube is unobstructed. If output issues persist, contact manufacturer.

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