

WL450 All Stainless Level Transmitter

Submersible stainless steel diaphragm water level transmitters



Standard Units for a Range of Uses

All of our standard WL450 units are set up for 2-wire, 4-20 mA output. They are calibrated for specific ranges in feet of head with an appropriate length of Hytrel® vented cable, including: 0-3' range (25' cable), 0-15' range (25' cable), 0-30' range (50' cable), 0-60' range (100' cable), 0-120' range (150' cable), 0-250' range (300' cable), and 0-500' range (510' of cable).

Customize for Your Application

In addition to the standard WL450 ranges and cable lengths, we can customize your WL450 for a small additional fee. Please contact Global Water regarding this option.

Features

- Rugged 316L stainless steel flush-diaphragm sensor
- Highly stable digital temperature compensation
- 16-bit internal digital error correction
- Durable and environmentally neutral Hytrel® cable
- Custom cable lengths and ranges are available

Applications



Ideal for groundwater, streams, rivers, lakes, runoff, drainage basins, irrigation canals, and more.

Description

The WL450 All Stainless Level Transmitter offers standard features and a level of performance that far exceed those of other comparably priced transmitters. The WL450 features a 316L stainless steel diaphragm, digital temperature compensation, and environmentally neutral Hytrel® cable. These assets enable the unit to provide a high level of performance over a long period of time and a wide range of operating conditions. The WL450 is ideally suited for environmental monitoring applications such as test wells, streams, rivers, and reservoirs.

Simple Digital Output

The WL450 includes a RS-485 direct to digital output for a modem or other communications network. This avoids the error and complication involved with analog to digital conversion devices. Please contact Global Water for more details about direct to digital applications.

Specifications

Sensing Element

Sensor Element	316L stainless steel, flush mounted (titanium available)
Available Ranges	0 to 3', 0-15', 0-30', 0-60', 0-120', 0-250', 0-500'
Accuracy	Total Error Band ±0.1%, 16 bit digital error correction
Overpressure	Not to exceed 2x full scale range
Operating Temperature	14 to 176°F (-10 to 80°C)
Temperature Compensation	Digital over entire operating range
Output	4-20 mA, 2-wire loop powered
Supply Voltage	10 to 28 VDC
Load Resistance	(): mA: < (supply - 8V) / 0.02A
Communication	RS-485

Housing

Wetted Materials	316L stainless steel, polyamide, fluorocarbon
Dimensions	0.825" (21mm) diameter x 3-3/4" (95mm) long
Weight	1lb (453.6g)

Cable

Material	Hytrel-jacketed, vented & shielded
Outside Diameter	0.23" (5.8mm)
Temperature Range	-22° to +185°F
Length	Standard 25 feet (up to 1,000 feet total)

Ordering & Options

All Stainless Level Transmitters

Order No.	Sensor Range (Ft/Head)	Cable Length
WL450-003	0 to 3'	25'
WL450-015	0 to 15'	25'
WL450-030	0 to 30'	50'
WL450-060	0 to 60'	100'
WL450-120	0 to 120'	150'
WL450-250	0 to 250'	300'
WL450-500	0 to 500'	510'
WL450-CUS	Custom Range	Custom Length

Options

Order No.	Description
WL450-EXC	Extra Hytrel® Vented Cable (up to a total of 1000')
WL450-T	Titanium Option



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