

# 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	( $I$ ): 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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