

# Submersible Hydrostatic Level Transmitter



## WL420

**WL420** has been designed for continuous liquid level monitoring in water wells, reservoirs, tanks, boreholes, rivers and other liquids.

The submersible unit measures the static pressure of the liquid column above the transmitter and transmits a current signal proportional to the water column to the instrumentation above.

The highly stable 316L stainless steel diaphragm sensor is fully compatible to raw or chlorinated water and most semi-aggressive liquids.

Supplied with a special vented cable to compensate the atmospheric pressure changes, it accurately transmits the measured liquid level. The application-dependent cable length can be defined at the time of purchase to the desired extent and can also be customer adapted at the application site.

Several measurement ranges are available for a wide range of applications, allowing their use with local or remote panel meters, data loggers or PLCs.



**PUR Vented  
Cable**



**IP68  
Rated**

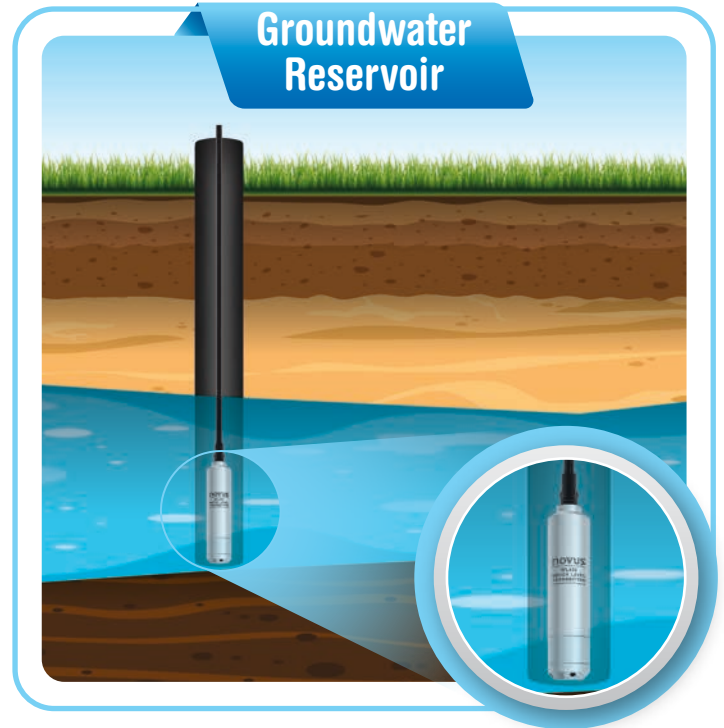


**Rugged  
Stainless Steel  
Construction**



**High Accuracy  
(0,5 % F.S.)**

## Application Examples



## Technical Specifications

|                  |  |
|------------------|--|
| Measuring Ranges | 1 ... 100 mH <sub>2</sub> O (1, 1.6, 2.5, 4, 6, 10, 16, 25, 40, 60 and 100 mH <sub>2</sub> O)<br>1.5 to ... 150 PSI (1.5, 2.4, 3.75, 6, 9, 15, 24, 37.5, 60, 90 and 150 PSI) |
| Special Ranges   | 3, 5 e 7 mH <sub>2</sub> O<br>4.5, 7.5 and 10 PSI  |
| Cable Length     | 5 ... 120 m (5, 10, 15, 20, 30, 40, 50, 80, 120 m)<br>16.40 ... 393.70 ft (16.4, 32.8, 49.2, 65.6, 98.4, 131.2, 164, 262.5, 393.7 ft)  |
| Sensor           | Piezo-resistive diaphragm  |
| Analog Output    | 4-20 mA  |
| Accuracy         | 0.5% F.S. @25 °C (@ 77 °F)   |
| Cable            | PUR (Polyurethane) 2x conductors, shield and vent tube   |

|                       |   |
|-----------------------|---|
| Operating Conditions  | 0 to 60 °C (32 to 140 °F), range < 4 mH <sub>2</sub> O (6 PSI)<br>-10 to 70 °C (14 to 158 °F), range ≥ 4mH <sub>2</sub> O (6 PSI) |
| Power Supply          | 4-20 mA loop-powered (12 - 36 Vdc)  |
| Housing Material      | Sensor - SS 316L<br>Case - SS 304 or SS 316   |
| Dimensions            | Length: 105 mm (4.13 in)<br>Diameter: 26.5 mm (1.04 in)   |
| Ingress Protection    | IP68  |
| Overpressure Limit    | ≤60 mH <sub>2</sub> O: 3x F.S.<br>≥10 mH <sub>2</sub> O: 2x F.S.  |
| Electrical Protection | Polarity inversion and current limiter  |
| Approvals             | CE, RoHS  |
| Warranty              | 1 year  |

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