

6541C Precision Water Level Instrument



Applications

- Displays water level continuously
- Hi-precision shaft encoder technology
- LCD display, reverse rotation, change scale and reset
- Low battery indication
- Optional 512 k micrologger for integrated data logging

Float-operated instruments can be the most accurate way to monitor water levels. The new Unidata Model 6541C Precision Water Level Instrument can achieve operating accuracy and resolution of 0.2 mm. This accuracy is maintained for the service life of the instrument without calibration or maintenance, apart from battery changes.

The PWL 6541C has the range to monitor surface and underground waters, and the precision to monitor rainfall and evaporation.

The 6541C supersedes models 6541A, B, 6509 and 6531. Previous Unidata models have been installed at more than 2500 sites.

The PWL instrument is normally connected to the surface of the water by a float system. As the water level changes, the input shaft rotates. An optical encoder is mounted on the input shaft.

On installation, the instrument is set to display the water level.

The encoder is continuously monitored as the instrument tracks water level changes. These changes update the LCD display and the readings can be recorded by an associated datalogger.

The very low mechanical friction and inertia of the instrument means that it can produce data with high precision and accuracy. A replaceable battery pack powers the instrument for more than twelve months. Practical design and rugged construction ensures easy operation and long service life.

Specifications

Range:	Standard 0.0 m to 65.5 m or 199.999 m to -199.999 m
Resolution:	1.0 mm, 0.2 mm or 0.1 inch, depending on the chosen float pulley
Accuracy:	Same as resolution when a suitable float system is used
Display:	Six digit LCD
Temperature:	-10 °C to 60 °C
Cable:	5 metres supplied. Up to 30 metres may be used
Dimensions:	275 mm x 180 mm x 1400 mm (HxWxD)
Weight:	2.7 kg (including battery)
Construction:	Exterior PVC, aluminium and stainless steel
Enclosure:	Rigid PVC IP66
Outputs:	SDI-12 interface version 1.3 compliant Dual HSIO channels (Unidata High Speed Serial Interface) Up to eight instruments can be daisy chained Optional 4-20 mA output
Power:	Internal alkaline battery pack (Unidata Model 6910A) Expected battery life >12 months. External battery power 7-15V DC may be connected.

6541C

- Displays water level continuously
- Small and easy to install and operate
- Accurate – 10 bit resolution
- SDI-12 support
- Optional 4 -20mA output
- Long battery life



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