

Precision Water Monitoring Instrument 6541B

Key Features

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

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

This instrument has the range to monitor surface and underground waters, and the precision to monitor rainfall and evaporation.

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

The PWM 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 data logger.

The very low mechanical friction and inertia of the instrument mean 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 to 65.5 or 299.99metres
Resolution:	1.0mm, 0.2mm 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° to 60°C
Cable:	5 metres supplied. Up to 30 metres may be used
Dimensions:	275mm x 180mm x 1400mm (H x W x D)
Weight:	2.7kg (including battery)
Construction:	Exterior PVC, aluminium and stainless steel
Enclosure:	Rigid PVC IP6
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 4-20mA output
Power:	Internal alkaline battery pack (Unidata Model 6910A) Expected battery life >12 months. External battery power 7-15V DC may be connected.

6541B

- 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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