

W14 GROUND WATER LEVEL LOGGERS

Datasheet W14



Description

Ground water level loggers are durable, versatile and cost effective tools which deliver accurate water level and temperature readings for many years. Groundwater professionals have been successfully employing this range of loggers to monitor both open waters and wells, to perform pump and slug tests, to complete wetland and tidal studies with excellent results for over 20 years.

With the dedicated, intuitive software, the water level loggers are quick and easy to program, launch and allow for simple data recovery. The data is easily saved in a tabular display and graph and both parameters can be viewed side by side in a split screen.

Features

- Automatic elevation adjustment with short term barometric compensation
- Easy field recalibration
- Measuring range of up to 10m, 30m, 60m and 120m
- Deployed and operated by one person
- Real time reading of height of water and temperature

Benefits

- Long term, accurate and robust groundwater level and temperature monitoring
- Simple, reliable and easy to read
- Multiple applications
- Low running costs
- Extended battery life up to 15 years dependant upon use



Comprehensive information about this product and our full range is available at soilinstruments.com
If you would like to speak with someone directly please call +44 (0)1825 765044 or email sales@soilinstruments.com

Operation

Water loggers measure, record and chart groundwater levels and temperatures over long periods of time.

The water loggers have automatic barometric pressure and elevation compensation together with a recalibration facility that allows for changes in groundwater density.

Water levels are reported as height of water above the transducer and depth of water below a local datum.

Measurements may also be related to sea level once the reduced level of the datum is established. Recording intervals are selected by the user and can range from 1 second to 255 hours.

Applications

Typical applications include:

- Tidal studies
- Wet lands monitoring
- Short term pump and slug testing
- Monitoring dewatering projects
- Stream gauging, reservoirs and lake levels
- Long term monitoring of open bodies of water, rivers and streams



Standard cap & direct read well head reader

P.C Communication cable

Lockable well cap

barLog+

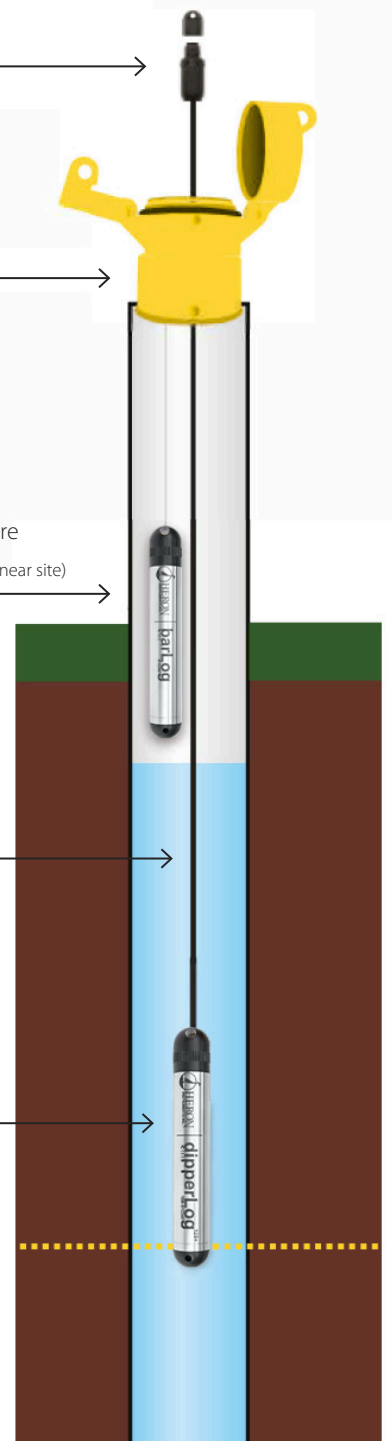
Measures Barometric Pressure

(Suspended above water in well, or near site)

Direct read cable

dipperLog+

Zero point



THE TECHNICAL RATING FOR THIS PRODUCT:

INTERMEDIATE



As the correct installation of any monitoring sensor or system is vital to maximise performance and accuracy, Soil Instruments makes the following recommendations, for the skill level of the installation contractor.

ADDITIONAL SUPPORT

We offer installation and monitoring services to support this system. For more information please email : sales@soilinstruments.com or call : **+44 (0) 1825 765044**

ADVANCED



The installer is trained and experienced in the installation of this type of instrument or systems, and is ideally a specialist Instrumentation and Monitoring contractor.

INTERMEDIATE



The installer already has previous experience and/or training in the installation of this instrument or system.

BASIC



As a minimum the installer has read and fully comprehends the manual, and if possible has observed these instruments or systems being installed by others.

Specifications

Sensor

Logger type	dipperLog TOUGH+	dipperLog 128+	barLog
Pressure ranges	0-10m 0-30m 0-60m 0-120m	0-10m 0-30m 0-60m 0-120m	n/a
# of data points		128,000	
Download speed		21,333.33 data sets per minute	
Water level accuracy ¹		±0.05% full scale	
Temperature accuracy ²		±0.05°C	
Over range		2x Factory calibrated range	
Operating temperature		-20° to +80°C	
Pressure resolution		0.01%	
Battery life ³		Up to 5,000,000 readings (up to 15 years)	

Material

Logger type	dipperLog TOUGH+	dipperLog 128+	barLog
Wetted material	Titanium, Delrin®, Teflon™	316 SS, Delrin®, Buna-N	n/a
O-Ring (primary/backup)	Teflon™ / Viton	Buna-N / Viton	Buna-N / Viton
Transducer	Titanium piezoresistive silicon	316 SS piezoresistive silicon	316 SS piezoresistive silicon

Dimensions

Logger type	dipperLog TOUGH+	dipperLog 128+	barLog
Length		145mm	
Diameter		22mm	
Weight	150g	170g	170g

Deployment options

Logger type	dipperLog TOUGH+	dipperLog 128+	barLog
Deployment options	Suspended, Direct read, Reel	Suspended, Direct read, Reel	n/a

¹ Max ±0.1% full scale (0°C to 50°C)

² Max +/- 0.15°C (-40 to 70°C)

³ Dependent on usage

Ordering Information

Ground Water Level Loggers

W14-13.10	Water Level dipperLog 128+, 0-10m range
W14-13.30	Water Level dipperLog 128+, 0-30m range
W14-13.60	Water Level dipperLog 128+, 0-60m range
W14-13.120	Water Level dipperLog 128+, 0-120m range
W14-12.10	Water Level dipperLog TOUGH+, 0-10m range
W14-12.30	Water Level dipperLog TOUGH+, 0-30m range
W14-12.60	Water Level dipperLog TOUGH+, 0-60m range
W14-12.120	Water Level dipperLog TOUGH+, 0-120m range
W14-11.W	Logger Weight
W14-1.B	Barometric Logger

Accessories

W14-2	Software and Comms Cable
W14-3	Direct Read Down Hole Cable; Price per metre
W14-4	Direct Read Mounting Kit
W14-4.10	Direct Read Cable with Wellhead 10m
W14-4.15	Direct Read Cable with Wellhead 15m
W14-4.30	Direct Read Cable with Wellhead 30m
W14-4.60	Direct Read Cable with Wellhead 60m
W14-4.150	Direct Read Cable with Wellhead 150m
W14-DIS-SM	TapNtelli Surface Mount Display
W14-5-LOCK	Locking Well Cap 2" Casing
W14-5-EX	Well Cap 2" Casing
W14-8-Kevlar	Kevlar Suspension Cord
W14-8	1.5mm Stainless Steel Wire, Coated to 2.5mm, Price per metre
W14-9	Crimps for Stainless Steel Wire

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