

W7 WATER LEVEL METER

Datasheet W7



**Description**

Water Level Meters are used to measure the depth of water in standpipes, wells and boreholes.

The meter comprises a Stainless Steel probe fitted to a flexible graduated cable which is wound on to a hand reel containing a transistorised switched circuit, audio (buzzer) and visual (LED light) indicators and a battery

The meter is simple to use and being portable, can be used at many locations. The tape design prevents it from sticking to wet surfaces, such as the lining of a borehole, ensuring accurate measurements.

There are two versions of the Water Level Meter; one with a small diameter probe and one with a diameter standard probe. The standard probe version is also available with an optional digital temperature indicator.

**Features**

- One instrument reads at many locations
- Contoured tape for accurate readings
- Tape range; 30m–500m with 1mm divisions
- Lightweight
- Simple, reliable and easy to operate
- Audible (buzzer) and visual (light) water level alert signals
- Sensitivity adjustment for variations in water conductivity
- Digital temperature indicator option available
- Non-stretch polyethylene coated steel tape
- Ø12mm slimline probe available

**Benefits**

- Easily portable
- Tape design prevents tape sticking to wet surfaces
- Economic water level monitoring
- Ideal for boreholes with small diameters



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

## Operation

The sensor probe incorporates an insulating gap which acts as a switch, the circuit being completed when contact is made with the water.

The cable consists of a non-stretch contoured tape with stranded steel conductors, graduated at one millimetre intervals.

The probe is lowered down a borehole on the end of the tape. When it makes contact with water a buzzer sounds and an LED light comes on, both located on the reel. A reading can then be taken from the tape at the top of the borehole to indicate the water depth.

A sensitivity control is accessible inside the hand reel to enable adjustment to suit the water conductivity.

## Applications

The Water Level Meter is ideal for site investigations such as:

- Water levels in open boreholes
- Control of de-watering and drainage operations
- Construction control and stability monitoring of dams, reservoirs and embankments
- Hydrological and hydrogeological investigations of water resources
- Pollution and environmental studies
- In-situ permeability measurements and pumping tests
- Stability investigations of natural and cut slopes



## Associated products

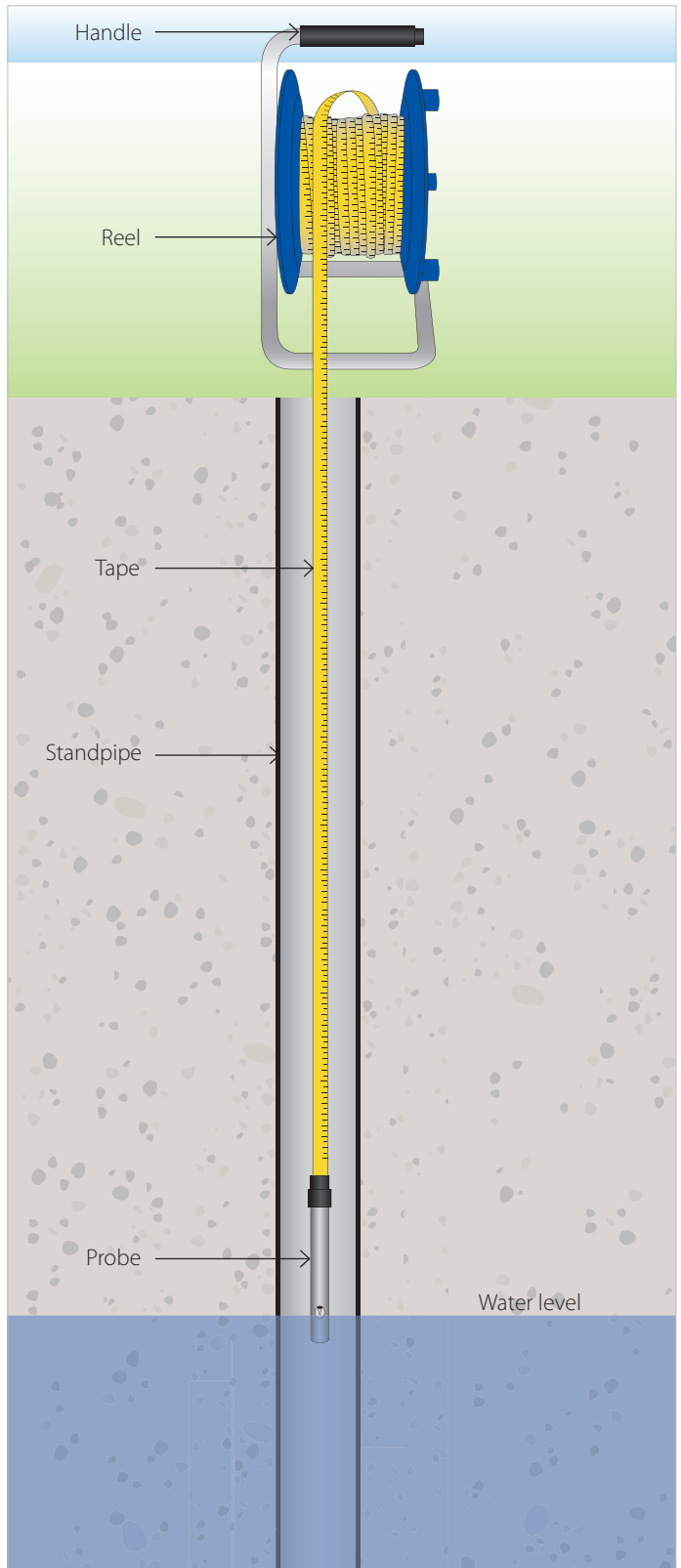
For details on:

Catalogue code:

VW Standpipe Piezometer

W1

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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](mailto: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

### Probe

Type	Standard <sup>1</sup>	Slimline
Diameter	15mm	12mm
Length	230mm	170mm
Type	Shrouded	
Material	Stainless Steel	

### Tape

Lengths	30m	50m	100m	150m	200m	300m	500m
Weights	1.7Kg	2Kg	3Kg	3.8Kg	4.6Kg	7Kg	11.5Kg
Type	Contoured/Stranded conductors						
Material	Copper conductors/Steel tape/Polypropylene coated						
Width	9.4mm						
Graduations	m   cm   mm						
Resolution	±1mm						

### Reel

Indicators	Audio and visual
Sensitivity control	Internal
Battery type	PP3/6LR61/MNI604
Battery life	12 hours' continuous use
Reel material	Steel frame/Polypropylene hub

<sup>1</sup>The Standard Probe is also available with a Digital Temperature Indicator. Please contact Sales for further information

## Ordering information

### Water Level Meter with a Slimline Probe – Metric

12mm diameter shrouded probe, metric graduated flat tape

W7-6.1-30	30m length tape
W7-6.1-50	50m length tape
W7-6.1-100	100m length tape
W7-6.1-150	150m length tape
W7-6.1-200	200m length tape
W7-6.1-300	300m length tape
W7-6.1-500	500m length tape

### Water Level Meter with a Standard Probe – Metric

15mm diameter shrouded probe, metric graduated flat tape

W7-T-15-30	30m length tape
W7-T-15-50	50m length tape
W7-T-15-100	100m length tape
W7-T-15-150	150m length tape
W7-T-15-200	200m length tape
W7-T-15-300	300m length tape
W7-T-15-500	500m length tape

### Manuals

MAN-52	Standpipe Piezometer
MAN-54	Water Level Meter

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