

Water Level Meter

Model 101

For measuring the depth of water in wells, boreholes, and standpipes, the Model 101 Water Level Meter is the most accurate and reliable meter. It is sturdy, easy-to-repair and read to 1/100 ft. or to each millimeter.

Also available, from Solinst, are the less expensive laser marked Model 102 Coaxial Cable Water Level Meter for use in small diameter tubes, and the 102M Mini laser marked Water Level Meter in lengths of 80 ft. and 25 m. (See Model 102 Data Sheet).

Operating Principles

The Model 101 Water Level Meter uses a choice of probe designs, attached to a permanently marked polyethylene tape, fitted on a well-balanced reel. It is powered by a standard 9 volt battery housed in an easy-access battery drawer. The conductors embedded within the tape, each have seven strands of stainless steel for strength and flexibility.

The probe incorporates an insulating gap between electrodes. When contact is made with water, the circuit is completed, activating a loud buzzer and a light. The water level is then determined by taking a reading directly from the tape at the top of the well casing or borehole.

A sensitivity control allows the buzzer to be turned off while in cascading water, and ensures a clear signal in both high and low conductivity conditions.

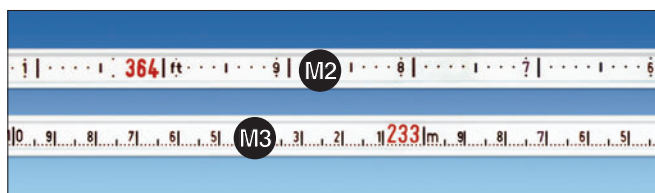
Tape Specifications

The high quality polyethylene tape reels smoothly, remains flexible and hangs straight in the well, irrespective of temperature. Permanent markings at each millimeter or 1/100 ft. allow accurate readings, traceable to national standards. The 3/8" (10 mm) wide tapes come in lengths up to 6000 ft. (1800 m).

Stranded stainless steel conductors resist corrosion, provide strength and are non-stretch. They make the tape very easy to repair and splice. The dog-bone design reduces adherence to wet surfaces. Markings are permanently impregnated onto one side of the tape in your choice of scale.

M2 Feet and tenths: with markings every 1/100 ft.

M3 Meters and centimeters: with markings every mm



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Probe Options

Probes are designed to reduce or eliminate false readings in cascading water.

P2 Standard:

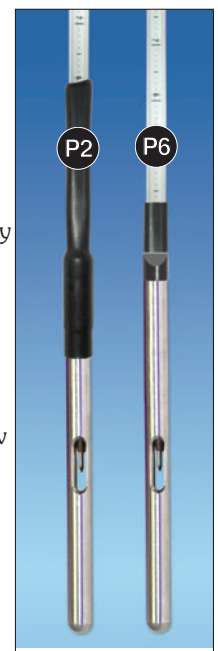
Stainless Steel with a neoprene strain relief. Not suitable for submergence to any significant depth. Easy to repair.

Size: 0.55" dia., 7.5" long
(14 mm x 190 mm)

P6 Submersible:

Stainless Steel, leak-proof probe. Simple design, similar to P2, uses o-rings to allow submergence to 1000 ft. (300 m) below water. It is easy-to-clean and hangs straight in the well.

Size: 0.5" dia., 7.5" long
(12.7 mm x 190 mm)
Weight: ~7 ounces (200 g)



Features

- Accurate**
 - Markings each 1/100 ft. or millimeter
 - Traceable to national standards
 - Sensitivity adjustable to conductivity
 - Shielded probes to avoid false readings
- Reliable**
 - Permanent, heat impregnated markings
 - Non-stretch stainless steel conductors
- Long Life**
 - Rugged, corrosion proof components
 - Strong, flexible tape, is easily spliced
 - Easy to repair

Reels

Standard reels are ergonomically designed for good balance and ease of use, with a stand-alone design, convenient carrying handle and an excellent brake.

They are robust and smooth running. The battery is housed in a convenient battery drawer and each reel has a probe holder and brake. The reels are equipped with an on/off sensitivity switch, light, buzzer, and a battery test button.

Length Options

Solinst Model 101 Water Level Meters are available on reels as shown at right, in the following standard lengths:

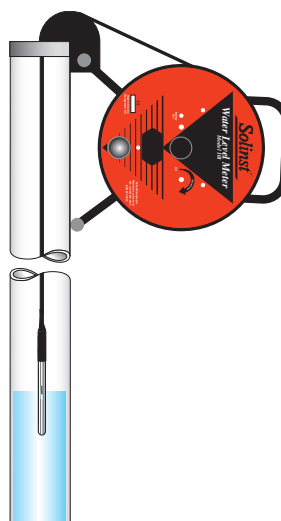
Small Reel	50 ft. 15 m	Large Reel	1250 ft. 400 m
	100 ft. 30 m		1500 ft. 450 m
	150 ft. 50 m		1650 ft. 500 m
	200 ft. 60 m		2000 ft. 600 m
	250 ft. 80 m	XL Reel	2500 ft. 750 m
	300 ft. 100 m		3000 ft. 900 m
Medium Reel	500 ft. 150 m		3500 ft. 1500 m
	650 ft. 200 m		6000 ft. 1800 m
	750 ft. 250 m		
	1000 ft. 300 m		



Model 101 Water Level Meter Family CE

Tape Guide/Datum

A tape guide is provided with each standard Water Level Meter. It protects the tape from damage on rough edges of well casing and ensures easy, consistent measurements, regardless of who takes the readings. It can also provide reel support on the casing, as shown below.

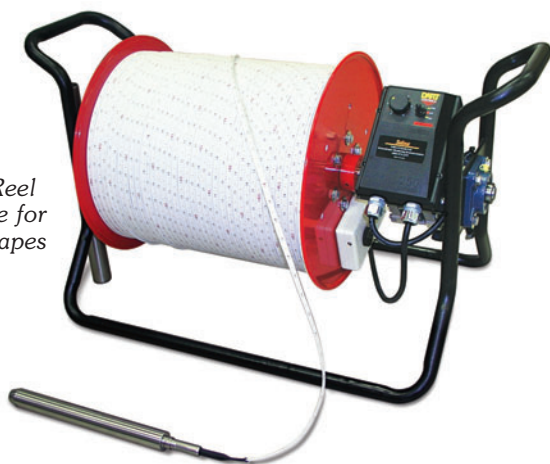


Tape Guide



Consistent readings with different operators

Power Reel available for longer tapes



Other Options

Power Reels: Power reels can be very useful to allow faster or less strenuous operation of longer lengths of tape. Power Reels are available as 110V and 12VDC, on request.

Carrying Bag: Small and medium padded nylon carrying bags are available, as an optional extra. Their design has a convenient shoulder strap, zippered front pocket, zippered top, and a grommet in the base to prevent moisture build-up.

Replacement Parts: Replacement probes, tapes with probe and other spare parts are available. Meters can also be returned directly to Solinst, or to authorized repair facilities for service or repair.

Coaxial Cable Water Level Meter: The Model 102 Laser Marked Water Level Meter features laser cable markings and is ideal for narrow diameters. (See Model 102 Data Sheet.)