



Water Level Meters



RST Water Level Meters are designed to measure the elevation of groundwater in boreholes, standpipes and wells. RST Water Level Meters employ a high accuracy, NIST traceable, non-stretch, flat tape, permanently marked in 1 mm or 1/100 ft. graduations. Dual scale tapes are available in 15 m/50 ft. or 30 m/100 ft. lengths. Water level meter tapes are available with either a polyethylene or Tefzel® coating.

The RST Water Level Meter is supplied on a sturdy winding reel complete with a brake and carrying handle. Features include a shrouded stainless steel probe (allows accurate level determinations under cascading water conditions), light, buzzer, test switch, and sensitivity control as standard. An optional tape guide/datum acts as a reference point and also prevents tape abrasion from the casing edge.

The moisture resistant electronics and standard 9 V battery are housed in the reel hub. This hub can be easily removed to replace the battery or check the electronics without disassembling the entire reel.

An optional temperature sensor is available which can be read with a multimeter or a digital readout. The temperature sensor must be requested at time of ordering.

operating principle

A two conductor cable serves to both lower the probe and connect the probe to the output circuit board. An insulating gap in the probe serves as a switch, closing upon contact with the water. This signal is amplified and fed to the light/buzzer thereby signaling contact with the water. Elevation of the water table is then read directly from the tape. Since the water acts as the electrolyte, a sensitivity adjustment is provided to compensate for varying conductivity.



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applications

Measuring the elevation of groundwater in standpipes, boreholes, and wells.

features

Resolution 1 mm or 1/100 ft.

NIST traceable, non-stretch steel tape, Tefzel® or polyethylene coated.

Easy electronics removal/battery replacement (standard 9 V).

7 strand, 24 gauge stainless steel conductors.

13 mm / 0.5 in. O.D. stainless steel probe. (16 mm / 0.625 in. O.D. on dual scale tapes).

Sensitivity adjustment, light, buzzer, test switch.

Sensing point at bottom of probe causes negligible water displacement ensuring high accuracy readings.

Tape markings will not fade or wear away.

Optional temperature sensor and readout.



specifications + ordering info

Water Level Meter



specifications

TAPE LENGTH	PART #		PROBE SIZE
	POLY TAPE	TEFZEL® TAPE	
15 m	WL1015	WL3015	13 mm / 0.5 in. O.D.
30 m	WL1030	WL3030	13 mm / 0.5 in. O.D.
50 m	WL1050	WL3050	13 mm / 0.5 in. O.D.
75 m	WL1075	WL3075	13 mm / 0.5 in. O.D.
100 m	WL1100	WL3100	13 mm / 0.5 in. O.D.
150 m	WL1150	WL3150	13 mm / 0.5 in. O.D.
250 m*	WL1250	N/A	13 mm / 0.5 in. O.D.
300 m**	WL1300	WL3300	13 mm / 0.5 in. O.D.
400 m**	WL1400	N/A	13 mm / 0.5 in. O.D.
50 ft	WL2005	WL4005	13 mm / 0.5 in. O.D.
100 ft	WL2010	WL4010	13 mm / 0.5 in. O.D.
150 ft	WL2015	WL4015	13 mm / 0.5 in. O.D.
200 ft	WL2020	WL4020	13 mm / 0.5 in. O.D.
300 ft	WL2030	N/A	13 mm / 0.5 in. O.D.
400 ft	WL2040	WL4040	13 mm / 0.5 in. O.D.
500 ft	WL2050	WL4050	13 mm / 0.5 in. O.D.
600 ft*	WL2060	N/A	13 mm / 0.5 in. O.D.
750 ft*	WL2075	N/A	13 mm / 0.5 in. O.D.
1000 ft**	WL2100	WL4100	13 mm / 0.5 in. O.D.
15 m / 50 ft (dual scale)	WL5050	WL6050	16 mm / 0.625 in. O.D.
30 m / 100 ft (dual scale)	WL5150	WL6150	16 mm / 0.625 in. O.D.

Alternate tape lengths available upon request.

* Mounted on a medium sized reel.

** Mounted on a large sized reel.

accessories

Aluminum or vinyl carrying/shipping case.

Tape guide/datum.

Electronic module replacement.

Digital temperature readout.

Replacement tapes with probe.

Power reel.

ordering info

Part number / tape length.

Temperature option, if required.

Accessories required.

GEOTECHNICAL . MINING . STRUCTURAL