Solinst® Water Level Meter: Op Instructions

Model 102

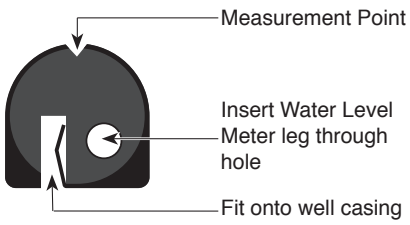
Equipment Check

1. Turn sensitivity switch **fully clockwise.**

> **Notes:** 1. Clockwise rotation of sensitivity swsitch turns meter on and increases sensitivity.
> 2. Always set switch to highest sensitivity position, then decrease if necessary.

2. Depress the Battery Test button to test the battery and circuitry (excluding the probe).
3. Submerse the probe in tap water. This completes the circuit and activates the buzzer and light.

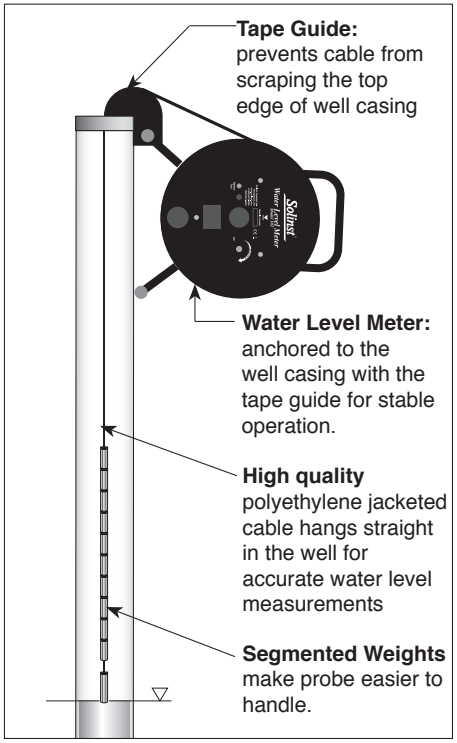
The Tape Guide



The Tape Guide has been designed to:

- Improve accuracy when reading water levels,
- Easily obtain repeatable measurements,
- Prevent cable damage on well casing,
- Allow the cable and probe to hang straight from the side of the well.

1. Fit the small end of the Tape Guide onto the edge of well casing 2" dia. or larger.
2. Insert the leg of the Water Level Meter into the hole on the Tape Guide and rest the Water Level Meter on the side of the well casing. (See diagram above).
3. To store the Tape Guide after taking water level measurements, simply clip it onto the support bracket located on the back of the Water Level Meter.



Water Level Measurements

1. The zero measurement point on both P1 and P2 Probes is the tip.
2. For ease of operation the Tape Guide can be used to support the Water Level Meter. (See diagram above).
3. Feed the cable into and out of the well using the groove in the top of the Tape Guide. The light and buzzer activate when the probe tip enters water. To ensure accuracy, lower and raise the probe a few times and then record the depth measurement from the cable at the top of the well.
4. When using the Tape Guide, the measuring point is offset from the top of casing. To adjust your measurements to the top of the casing, simply subtract the amount indicated on the front of the Tape Guide (ie 6 cm or 2/10 ft).

Routine Care

1. After the depth to water has been recorded, the cable should be carefully rewound onto the reel, the probe wiped dry and placed into the probe holder.
2. The probe, weights, cable and reel can be cleaned with phosphate free (non-abrasive) detergent and warm water.
3. Use of a Water Level Meter Carrying Bag adds to the service life of the meter.
4. Use of the Tape Guide adds to the life of the cable.

Replacement Parts

The following parts can be provided should components become lost or damaged.

1. Splice kits
2. Lights, switches, etc.
3. Reels and/or faceplates
4 Replacement cable with probe (complete)
5. Assembled probes on 10 ft or 3 m lengths of cable
6. Probes and weights

Battery Replacement

- Battery type - alkaline, 9 volt.

1. The battery is housed in a convenient battery drawer located in the faceplate of the Water Level Meter.
2. To replace the battery, simply press the drawer in, lift, then pull.
3. The battery drawer should slide out of the faceplate enough to pull it out.
4. Note the polarity. The positive (+) terminal should be towards the small notch in the end of the drawer. Place new battery in the drawer and slide it back into the faceplate.

Troubleshooting

SYMPTOM	CAUSE	REMEDY
No sound when probe immersed in water.	Dead battery.	Replace with 9V Alkaline.
	Water Conductivity is very low.	Increase sensitivity switch setting (turn clockwise) or call Solinst for assistance.
	Disconnected wires on circuit board.	Check all connections inside hub of reel for loose/disconnected wires - solder or reconnect.
	Broken wire in cable.	Locate break in cable - splice and seal. (Contact Solinst)
	Disconnected wire inside probe.	Contact Solinst to obtain parts/repair instructions.
Instrument continuously sounds after being immersed in water.	Water in probe. Probe may be dirty which could interfere with the circuit connection.	Contact Solinst for instructions to remove, clean and reseal the probe.

Printed in Canada
July 6, 2009
(#109408)

For further information contact: Solinst Canada Ltd.
Fax: +1 (905) 873-1992; (800) 516-9081 Tel: +1 (905) 873-2255; (800) 661-2023
35 Todd Road, Georgetown, Ontario Canada L7G 4R8

Solinst®