

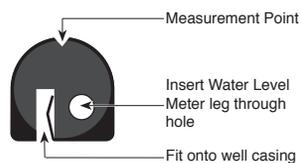
Equipment Check

1. Turn sensitivity dial **fully clockwise**.

Notes: 1. Clockwise rotation of sensitivity dial 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 main circuitry (does not test the tape or probe).
3. Submerge the probe in tap water. This completes the circuit and activates the buzzer and light.

The Tape Guide



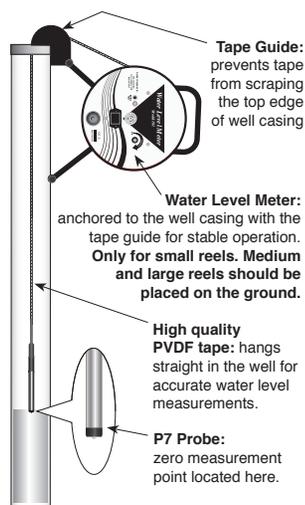
The Tape Guide has been designed to:

- Improve accuracy when reading water levels,
- Easily obtain repeatable measurements,
- Prevent tape being cut by well casing,
- Allow the tape 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" (50 mm) diameter or larger.
2. For small reels only, 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, simply clip it onto the support bracket located on the back of the Water Level Meter.

Water Level Measurements

1. The P7 Probe zero measurement point is located near the tip of the probe.
2. For ease of operation the Tape Guide can be used to support the Water Level Meter. (See diagram above).
3. Feed the tape into and out of the well using the groove in the top of the Tape Guide. The light and buzzer activate when the black Delrin tip is submerged and the zero point is reached. To ensure accuracy, lower and raise the probe a few times and then record the depth measurement from the tape 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 (i.e. 6 cm or 2/10 ft).



Routine Care

1. After the depth to water has been recorded, the tape should be carefully rewound onto the reel, the probe wiped dry and placed into the probe holder.
2. The probe, tape and reel can be wiped clean with phosphate free (non-abrasive) detergent and warm water. Do not submerge the reel.
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 tape.

Probe Care and Cleaning

1. The P7 Probe should be wiped clean after each use.
2. Remove any dirt or water from around the central sensor pin.
3. If the central sensor pin is corroded or coated, use emery cloth to polish it.
4. After cleaning, place probe back in its holder.

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 (positive (+) terminal should be towards the small notch in the end of the drawer) and place new battery in the drawer and slide it back into the faceplate.

Replacement Parts

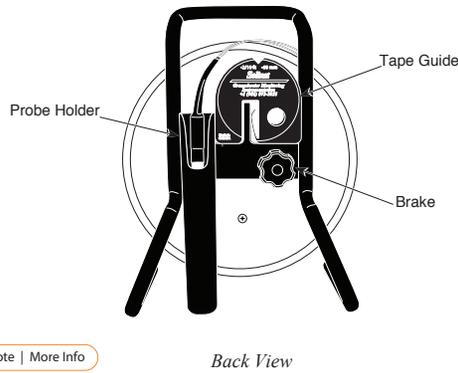
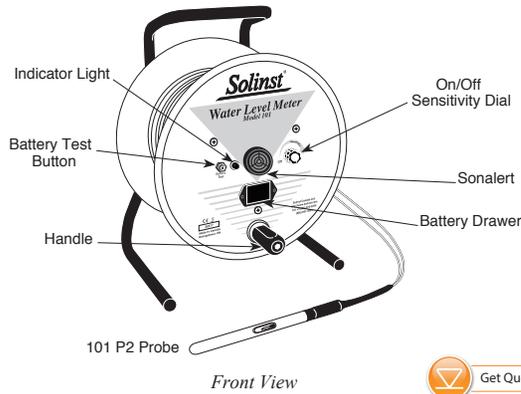
The following parts can be provided should they become lost or damaged.

1. Probes
2. Tape with Tape Seal Plug
3. Tape Seal Plug on shorter lengths of tape (3 ft or 1 m) and splice kit
4. Lights, switches, etc.
5. Reels

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 tape.	Locate break in tape - splice and seal, or replace. (Contact Solinst)
Instrument continuously sounds after being immersed in water.	Disconnected wire inside probe.	Contact Solinst to obtain parts/repair instructions.
	Water in probe. Probe may be dirty which could interfere with the circuit connection.	Remove P7 Probe. If sounding stops, check/replace o-ring. If sounding continues, check connection of electronics and wiring in reel. If sounding continues, contact Solinst for assessment or replace probe with new P7 probe.

Model 101 P2



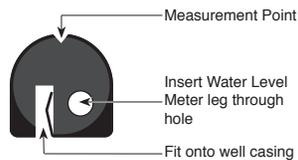
Equipment Check

1. Turn sensitivity dial **fully clockwise**.

Notes: 1. Clockwise rotation of sensitivity dial 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 main circuitry (does not test the tape or probe).
3. Submerge the probe in tap water. This completes the circuit and activates the buzzer and light.

The Tape Guide



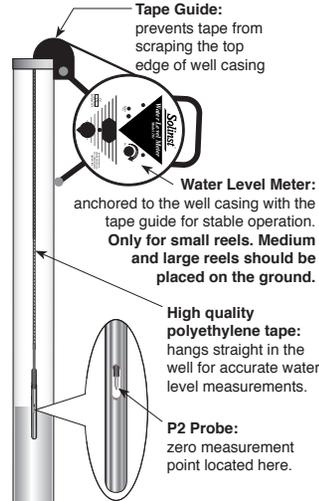
The Tape Guide has been designed to:

- Improve accuracy when reading water levels,
- Easily obtain repeatable measurements,
- Prevent tape being cut by well casing,
- Allow the tape 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" (50 mm) diameter or larger.
2. For small reels only, 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 at right).
3. To store the Tape Guide, simply clip it onto the support bracket located on the back of the Water Level Meter.

Water Level Measurements

1. The P2 Probe zero measurement point is the tip of the needle in the center of the probe.
2. For ease of operation the Tape Guide can be used to support the Water Level Meter. (See diagram below).
3. Feed the tape into and out of the well using the groove in the top of the Tape Guide. The light and buzzer activate when the needle tip enters water. To ensure accuracy, lower and raise the probe a few times and then record the depth measurement from the tape 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 (i.e. 6 cm or 2/10 ft).



Routine Care

1. After the depth to water has been recorded, the tape should be carefully rewound onto the reel, the probe wiped dry and placed into the probe holder.
2. The probe, tape and reel can be cleaned with phosphate free (non-abrasive) detergent and warm water. Do not submerge the reel.
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 tape.

Probe Care and Cleaning

1. The P2 Probe should be wiped clean after each use.
2. Remove any dirt or water from around the central sensor pin.
3. If the central sensor pin is corroded or coated, use emery cloth to polish it.
4. Check the P2 Probe seal/strain relief and replace the black heat shrink if there is any cracking or other damage.
5. After cleaning, place probe back in its holder.

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 (positive (+) terminal should be towards the small notch in the end of the drawer) and place new battery in the drawer and slide it back into the faceplate.

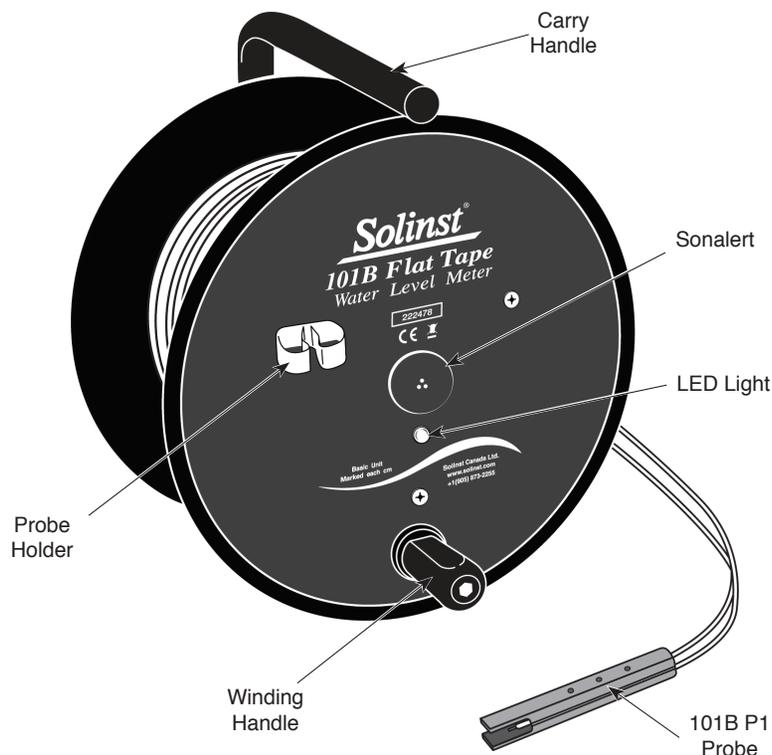
Replacement Parts

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

1. Probes and seal kits
2. Splice kits
3. Lights, switches, etc.
4. Reels
5. Replacement tape with probe (Complete)
6. Assembled probes on shorter lengths of tape

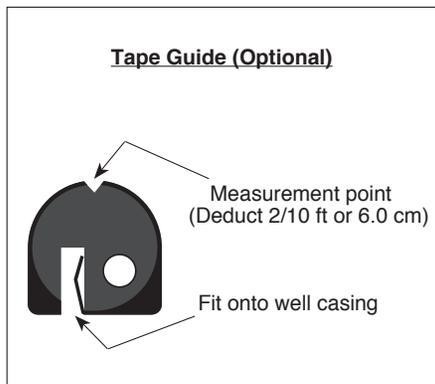
Troubleshooting

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 tape.	Locate break in tape - splice and seal, or replace. (Contact Solinst)
Instrument continuously sounds after being immersed in water.	Disconnected wire inside probe.	Contact Solinst to obtain parts/repair instructions.
	Water in probe. Probe may be dirty which could interfere with the circuit connection.	Contact Solinst for probe seal kit. Disassemble, clean and reassemble probe using the new seal kit.



Water Level Measurements

1. The zero measurement point on the 101B P1 Probe is at the tip of the conductor pins.
2. Feed the tape into the well. If a tape guide is used, lay the tape onto the groove on the top. Measurements will be read at the point of the V-notch on the tape guide. Remember to deduct 2/10 ft or 6.0 cm.
3. The light and buzzer activate when the probe conductor pins enter water. To ensure accuracy, lower and raise the probe a few times and then record the depth measurement from the tape at the top of the well.



Equipment Check

1. Submerge the probe in tap water to test the probe. This completes the circuit and activates the buzzer and light.

Routine Care

1. After the depth to water has been recorded, the tape should be carefully rewound onto the reel, the probe wiped dry and placed into the probe holder.
2. The probe, tape and reel can be wiped clean with phosphate free (non-abrasive) detergent and water. Do not submerge the reel.

Battery Replacement

- Battery type - alkaline, 9 volt.
1. The battery is housed within the faceplate of the reel.
 2. Using a Phillips screwdriver, remove the three screws on the faceplate.
 3. Carefully remove the faceplate so as to not unwind the tape.

4. Replace the battery.
5. Carefully place the faceplate back onto the hub and line up the holes.

Note: Before screwing the faceplate back onto the hub, make sure no wires are outside the hub.

6. Once the screws have been tightened and the faceplate is secure, test the water level meter.

Replacement Parts

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

1. Splice kits
2. Electronics
3. Faceplate and backplate
4. Tapes
5. Probes
6. Probe holders, brakes, etc.

Troubleshooting

SYMPTOM	CAUSE	REMEDY
No sound when probe immersed in water.	Dead battery.	Replace with 9V Alkaline.
	Water Conductivity is very low.	Try a different Solinst 101 Water Level Meter.
	Disconnected wires on circuit board.	Check all connections inside hub of reel for loose/disconnected wires - solder or reconnect.
	Broken wire in tape.	Locate break in tape - splice and seal, or replace. (Contact Solinst)
Instrument continuously sounds after being immersed in water.	Damaged probe.	Contact Solinst to obtain parts/repair instructions.
	Probe may be dirty which could interfere with the circuit connection.	Contact Solinst for instructions to remove, clean and replace the probe.