Innovations in Water Monitoring

Instruction Sheet

Water Level Meter

Part Number: Multiple Part Numbers

Components

1	Battery Compartment
2	Indicator LED
3	Buzzer
4	Sensitivity Dial
5	Mode Button
6	Hand Brake

Operation Modes

Static Mode

- Use the Water Level Meter in *Static* mode to measure depth to water.
- The buzzer will sound and the indicator LED will turn on when the probe makes contact with the surface of the water.
- This is the default mode for the level tape. The LED on the mode button will **not** be on when in *Static* mode.

Drawdown Mode

- Use the Water Level Meter in *Drawdown* mode to measure the level of drawdown during a pumping test.
- The buzzer will sound and the indicator LED will turn on when the probe **is not** in contact with water.
- Activate *Drawdown* mode by pressing the mode button in. The LED on the mode button lights up when *Drawdown* mode is active.

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Probe Continuity Test

To verify probe functionality prior to deployment, you may use the probe contact points on the back of the tape spool.

1. Turn the sensitivity dial fully clockwise (highest sensitivity).
2. Touch the tip of the probe to the extended test contact on the back of the unit (the lower contact).
3. Touch the probe body to the second contact on the frame to complete the circuit. The buzzer will sound. If the buzzer does not sound, verify that the probe and contact points are clean and that the battery has sufficient power.

Sensitivity Dial

- The sensitivity dial is both a power switch and sensitivity adjustment.
- To power the meter, turn the dial clockwise until it clicks.
- To adjust the probe's sensitivity to different fluids, turn the dial clockwise for low conductivity fluid or counterclockwise for high conductivity fluid.

Field Use: Static Mode

1. Position the meter:
    a. Small/medium tapes (100 m -150 m): Attach the meter to the well casing using the integrated well hook as shown in the photo on the right.
    b. Large tapes (250 m - 600 m): Place the meter on the ground next to the well. Hook the included tape guard onto the well casing to protect the tape (shown below).

2. Using the sensitivity dial, turn on the meter and adjust to the desired sensitivity.
3. Release the hand brake slowly while holding the probe in your hand.
4. Feed the tape slowly down the well. To prevent damage to the probe, never allow the tape to free fall. Avoid rubbing the tape against the edge of the well casing.
5. When the buzzer sounds, carefully raise the tape a few inches and lower it back down to the water level several times to get an accurate measurement.

6. Record the depth measurement shown on the tape.
7. Rewind the tape, removing water and debris as you wind.
8. Apply the brake and place the probe in the holder.
9. Turn off the meter by turning the sensitivity dial counterclockwise until it clicks.

Field Use: Drawdown Mode

1. Position the meter:
    a. Small/medium tapes (100 m - 150 m): Attach the meter to the well casing using the integrated well hook as shown above.
    b. Large tapes (250m - 600 m): Place the meter on the ground next to the well and hook the included tape guard onto the well casing.
2. Using the sensitivity dial, turn on the meter and adjust to the desired sensitivity.
3. Release the hand brake slowly while holding the probe in your hand.
4. Feed the tape down the well. Avoid rubbing the tape against the edge of the well casing.

> ⚠ Never let the probe and tape free fall down the well; the probe could be damaged.

5. When the buzzer sounds, push the mode button to put the meter in Drawdown mode (the mode LED will turn on).
6. Lower the tape to the desired drawdown level.
7. Apply the hand brake to hold the probe in place during your test.
8. When the water level drops below the probe, the buzzer will sound.
9. When the test is complete, change the mode to Static using the mode button.
10. Rewind the tape, removing water and debris as you wind.
11. Apply the brake and place the probe in the holder.
12. Turn off the meter by turning the sensitivity dial counterclockwise until it clicks.

Battery Replacement

1. Push the battery compartment in and up. The compartment should spring out slightly.
2. Remove the compartment from the faceplate completely.
3. Remove the old battery and replace with a standard 9V alkaline battery.
4. Install the battery compartment in the faceplate, making sure it clicks into place.
5. Perform a probe continuity test.

Care and Cleaning

- To maintain performance and prolong the life of the unit, keep the probe, tape, and faceplate clean.
- Clean the tape, probe and reel with a mild detergent. Rinse with water.
- Clean the faceplate with a damp cloth.
- Do not pour water over or submerse the spool and faceplate in water.

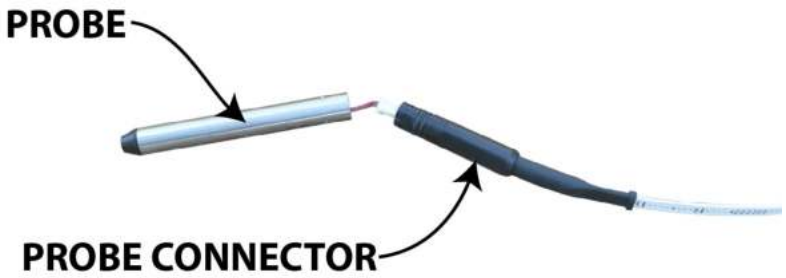
Troubleshooting

The unit is not emitting sound or light:

- Check the battery and change if necessary.
- Ensure battery compartment is fully closed.
- Turn the sensitivity dial fully clockwise and switch from Static mode to Drawdown mode and back.
- If the unit does not sound or light up, perform a probe continuity test. If necessary, replace the probe.

Inspecting and Replacing the Probe

1. Grasp the probe in one hand and the black probe connector in the other.
2. Gently twist the probe counter-clockwise and pull down to disconnect the probe body from the tape.
3. Check the connection between the probe and tape contacts. The contacts should be fully connected.
4. Reattach the probe or install the new probe and perform a continuity test.



Compliance

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