

### Operating Instructions

Your well probe is a precision instrument designed to provide years of reliable service when carefully handled and properly maintained. Keeping the instrument, reel assembly, tape and probe sensor clean, dry and neatly wound when not in use, will extend its reliability.

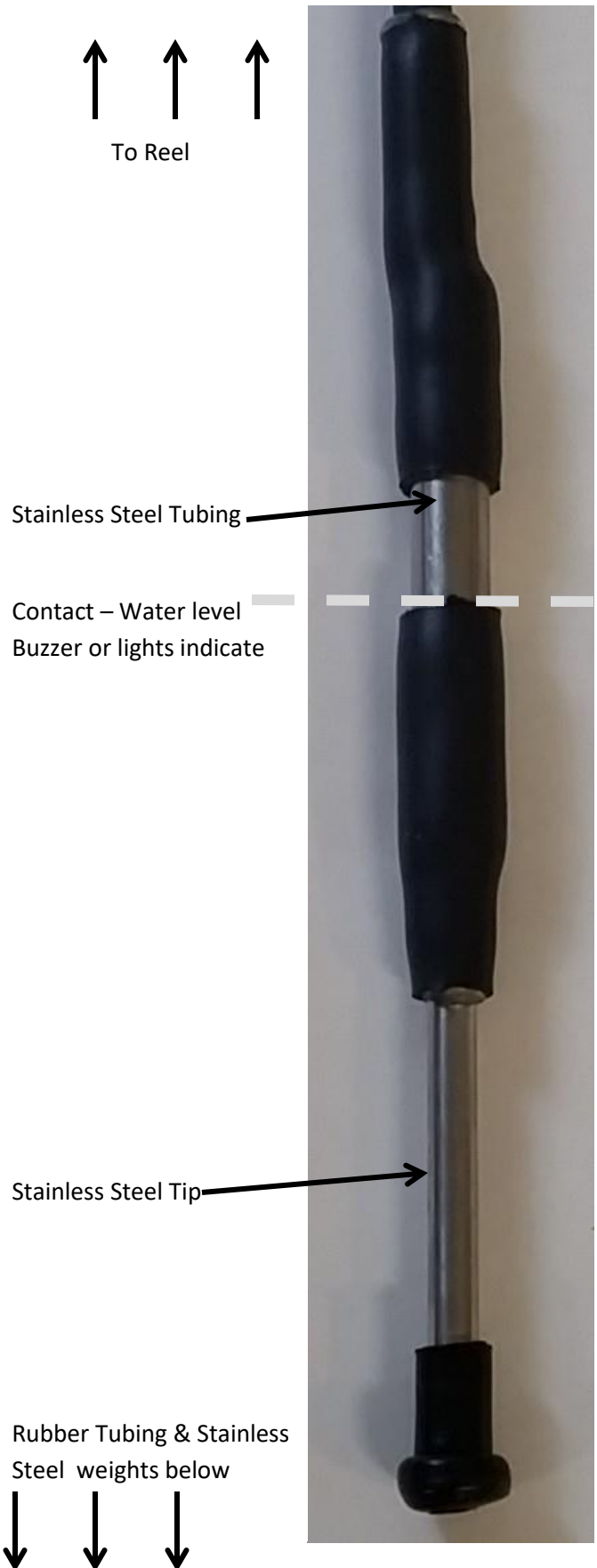
Water levels are easily checked by lowering the probe sensor into the well access, usually a vent or inspection hole in the well seal or if no other access is available, through a retaining bolt hole.

With the buzzer/led selector switch in the operators preferred position, the probe sensor is lowered into the well by turning center locking handle counter clockwise to release the brake and pulling the cable from the reel. This method will provide the necessary 'feel' as the sensor descends, and will better indicate to the user any possible hang-up in the well casing hardware or wiring.

As the probe enters the water and the water level reaches the contact point just above the insulator sleeve on the probe sensor tip (see diagram) the buzzer or LED's will indicate a contact.

Cable measurements are calibrated from that point (see diagram).

Moving the probe sensor up and down fractionally, while noting the selected indicator, will locate the water level precisely.



## **Function Switch**

Selects OFF, TEST, LED or BUZZER. This switch should be left in the OFF position when unit is not in use to avoid draining the battery. The TEST position allows you to test the battery charge and the function of the electronic circuitry.

## **Sensitivity Switch**

NORMAL range for most applications

LO position when high salinity or mineralization of water results in slow 'draining' from the sensor, leaving the indicator signal 'on' after the sensor leaves the water. Setting the switch to this position will cause the indicator to more sharply 'break' the signal.

HI position when very pure water or chemical influences require a higher sensitivity setting to obtain a signal or you are lowering the probe through a narrow diameter monitoring tube or pipe.

## **Operation**

- A. Turn Function Switch from OFF to TEST. Both LED's will light up and the buzzer will sound. If this does not happen, change the battery.
- B. Select preferred indication: LED (visual) or BUZZER (audible)
- C. With LED or BUZZER selected, insure that the sensitivity switch is in the required range. (To check, insert the probe sensor in a sample of the well water you are checking and calibrate the sensitivity accordingly.)
- D. Unit is now ready to proceed with well test.

## **Change Battery**

Lift to withdraw the batter drawer on the cover plate. Replace 9V battery. Be sure to orient the battery correctly in the drawer, and the drawer correctly in the cover plate.

## **Troubleshooting**

First step: Install a fresh battery – this eliminates 85% of probe problems. (Make sure the new battery is good)

- A. Continuous Signal
  - I. Thoroughly clean & dry sensor
  - II. Verify sensitivity setting
  - III. Visually check from tip of sensor upwards for crimp, cut, or other damage to the cable/tape which may be causing a 'short'.
- B. No Signal
  - I. Check that function switch is in the correct mode.
  - II. Verify sensitivity setting using a water sample as described under 'Operation' above, a higher setting may be necessary.
  - III. Check for damage to sensor or cable/tape.
- C. Unsolicited Signal/Unit sounding when not in use
  - I. If unit is sounding when left in one of the 'on' positions, and is not in use, this is an alarm warning you that the battery is very low.

If you are unable to locate a problem as described above, instruments can be returned to our service department for fault diagnosis, cleaning, refurbishment and/or damage repair. Please enclose a note indicating the problem you are experiencing, a contact name, phone number and email address for repair estimates, if required, or any special instructions. We also have a Service Request sheet on our website that you can print, fill out and include.

*Shipping address: 4301 Squalicum Lake Road, Bellingham, WA 98226*