

dipper-Temp

Temperature Meter

Operating and Maintenance Instructions

www.heroninstruments.com

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General Care of Heron dipper-Temp

Heron Instruments Water Level Meters are quality, robust units that will give many years of reliable service if these recommendations are followed:

Avoid sharp edged casing, use the tape guide on the unit.

Take care to avoid the tape becoming entangled with other equipment in boreholes or wells, use stilling pipes when possible.

DO NOT use the dipper-Temp as a guide to backfilling, bentonite sealing or sand packing in wells. This type of material falls through the water column at a much slower rate than the dipper-Temp probe and can result in a trapped probe and tape.

Neatly rewind and clean the tape after each use.

Refer to: [Cleaning the Heron temperature meter](#)

[Warranty is conditional upon adherence to these guidelines](#)

Equipment Check

Before taking the unit into the field, carry out these simple tests. Push the test button in air, unit will display air temperature (see Figure 1), and make sure the two panel retaining thumb screws (nuts) are tight.

The unit is off until the probe is in water or the test button is pushed. Pushing the test button in air gives the air temperature.

NOTE: There is no on/off switch on the instrument, the water is the switch. The dipper-Temp consumes no power when the probe is not in water.

When LOW BATT is displayed, the 9 volt battery must be changed as soon as possible. NOTE: Accurate battery orientation diagram inside of battery box. (See Figure 1)

Use in the Field

Reel the tape down the well carefully avoiding the edge of the casing. Hang the dipper-Temp on the casing when possible and run the tape over the guide on the frame leg to avoid cuts and nicks to the tape. Swivel the probe holder on the frame to allow the tape free movement down the well (See Figure 3). NOTE: The inverted triangle on the probe holder serves as a datum point indicating "top of casing".

When the unit sounds, carefully measure the depth to water indicated on the tape from your reference point. Raise and lower the probe in and out of the water to get a consistent result for water level. Push the left black button to switch the audio signal off, if only doing temperature profiling.

The right black button is the test button. When pushed, It will signal with an audio and visual indication and will display the temperature in Celsius.

The temperature reading may take 30 seconds to stabilize.

DO NOT use the [dipper-Temp](#) to measure the progress of back filling wells. The tape and probe may become trapped in the backfill material.

DO NOT allow the tape to "freewheel" down the well. It may become caught in other equipment in the well.

When rewinding the tape remove as much water and debris as possible from the tape and the probe.

Cleaning the Heron dipper-Temp

Always clean the meters after use in the field to maintain optimal performance and extend the life of the unit.

The [dipper-Temp](#) may be cleaned with any mild household dishwashing detergent and rinsed with water.

DO NOT use abrasives, partially halogenated hydrocarbons or ketones to clean the reel. If the electronic panel is removed first, the reel and tape can be washed with a power washer.

Remove the panel retaining thumb screws (nuts) to release the panel. Take care not to lose the thumb screws as the unit will not work without them.

For longer units with aluminum reel discs, the panel is connected to the tapes with male and female push connectors.

Troubleshooting the Heron dipper-Temp

Q. [No sound or light when the unit is tested.](#)

A. Refer to Equipment Check and follow procedures. Change the battery.

Q. [Equipment checked, panel okay but probe not working.](#)

A. Make sure both panel retaining thumb screws (nuts) are tight.

Q. [Still not sounding in water.](#)

A. Adjust the sensitivity setting. If the unit still does not work check all the connections inside the hub (inside the hub polarity is not an issue as the current is AC).

[Contact Heron Instruments or your supplier if you cannot isolate the problem.](#)

Warranty (3 years, probe 1 year)

Heron Instruments Inc. warrants to repair or replace any such defective equipment or part (determined to our satisfaction to have a defect in workmanship or original material) upon receipt and inspection of such defective equipment to Heron Instruments Inc. with all shipping pre-paid by the user.

In no event shall Heron Instruments Inc. be liable for any direct, indirect or consequential damages, abuse, acts of third parties (rental equipment), environmental conditions or other expenses which may arise in connection with such defective equipment.

This warranty shall not apply to damage of equipment caused by improper installation, usage, storage, alteration or inadequate care.

Heron Warranty coverage does not extend to the following:

Tape, bag or batteries used with the product

Products used as rental equipment

Products contaminated by materials which are known to be hazardous and; as such, have rendered the unit unserviceable

Parts failure due to neglect in cleaning or incorrect servicing

Failure of parts caused by misuse

For service information:

visit www.heroninstruments.com under the CONTACT heading

email service@heroninstruments.com
call 1-800-331-2032 or 905-628-4999

Warranty is conditional

WLM Electronic Panel

Battery Box

Thumb Screws (Keep Tight)

Sensitivity Knob for
cascading water

Please note: this is not an on/off switch. The water is the switch.

Signal LED

Test Button

Buzzer

Thumb Screws (Keep Tight)

To test entire system: **Make sure sensitivity dial is turned fully clockwise.** For the Water Tape, hold the center pin on the probe against the stud on the back of the axle; touch the probe body against the screw on the frame at the same time. For the Skinny Dipper, touch the last probe weight and the probe body with metal material (wire) at the same time. The buzzer will sound if the system is okay.

Unique hanger and tape protector supports the meter on the casing and protects the tape from sharp edges on the well casing.

IMPORTANT: ENSURE THAT THE PANEL RETAINING THUMB SCREWS (NUTS) ARE TIGHT BEFORE USE.

Operating and Maintenance Instructions inside

HERON ALSO MANUFACTURES:

- Water Level Meters
- Data Loggers
- Interface Meters
- Conductivity Meters
- Temperature Meters
- Well Casing Indicators
- Well Depth Indicators

HERON INSTRUMENTS INC.

447 Moxley Road | Dundas, ON Canada L9H 5E2
1-800-331-2032 | info@heroninstruments.com

Please visit our website www.heroninstruments.com
for more information on the complete Heron line.

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