

Operating and Maintenance Instructions inside

Part Number	Item	Link
1809-2	Probe	1809-2
1821-2	Electronic Panel	1821-2
1108-2		1108-2

To maximize battery life, the **dipper-Temp** meter automatically shuts off after 5 minutes of inactivity. When the battery is low, "CHANGE BATTERY" appears on the display panel. The meter will continue to operate, but the battery should be changed as soon as possible.



Image 2



Image 1

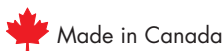
HERON ALSO MANUFACTURES:

- Water Level Meters
- Data Loggers
- Interface Meters
- Conductivity Meters
- Well Casing Indicators
- Well Depth Indicators
- Tag Line
- Downhole Inspection Cameras

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



dipper-Temp

With Temperature & Depth



Operating and Maintenance Instructions



dipper-Temp Instructions

General Care of the dipper-Temp

- Do not scrape the tape against sharp-edged well casing. (Image 2)
- Avoid entanglement with other equipment in boreholes and wells.
- Rewind the tape onto the reel after each use.
- Clean the probe tip with distilled water.
- Do not tap or hit the probe to dislodge dirt or mud. Soak the probe tip in water to remove trapped dirt.

Warranty is conditional upon adherence to these guidelines

Equipment Check

Clean the probe and check for damage

Thoroughly clean the probe with distilled water to minimize any buildup that could interfere with results.

Test the Unit

1. Press and release the power button. Automatic System check will be performed. The digital display will then update with temperature readings.
2. Automatic System Check will be performed.
 - OPEN message: There is a disconnect - either, wire, probe, tape.
 - SHORT message: There is a cut in the tape.
3. If the unit does not turn ON, replace the 9V battery in the battery box (Image 1).
4. Place the probe in tap water. The unit will emit an audio and visual indication and the display will update with temperature readings.
5. Remove the probe from water. The unit will stop sounding.

Use in the Field

1. Press the power button to turn the unit on. The display will show you the battery life on startup. The buzzer will also beep between 1 and 5 times.
 - 5 times indicates battery life of over 80%
 - 4 times indicates battery life between 60-80%
 - 3 times indicates battery life between 40-60%
 - 2 times indicates battery life between 20-40%
 - 1 time indicates battery life is less than 20%
2. Holding down the power button will change your temperature units. It will cycle through 4 options (° C, ° F, or scientific° K, ° R).
3. The silence button will mute the buzzer entirely. The LED indicator will still function. Pushing the Silence button again will re-activate the buzzer.
4. Rotate the volume dial to turn the buzzer volume up and down.

Calibration of the dipper-Temp

The dipper-Temp does NOT require calibration after purchase. Your dipper-Temp will remain accurate for the duration of its lifespan.

Cleaning the dipper-Temp

Always clean the dipper-Temp 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.

If the electronic panel is removed first, the reel and tape can be washed gently with a power washer. Remove the screws (See Image 1) to release the panel.

DO NOT use abrasives, partially halogenated hydrocarbons or ketones to clean the reel.

Troubleshooting the dipper-Temp

Q. What if there is no sound or indicator light when the unit is tested?

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

Q. Why doesn't the unit sound when testing the probe?

A. Make sure there are no cuts or nicks in the tape

Q. If I check the above and the unit still doesn't sound.

A. Loosen the screws from the electronic panel and take the panel off the unit. Make sure tape connectors are connected to the back of the electronic panel

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

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