



Operating and Maintenance Instructions

dipper-Tag multipurpose tag line



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

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HERON INSTRUMENTS INC.

- Water Level Meters
- Data Loggers
- Interface Meters
- Conductivity Meters
- Temperature Meters
- Well Casing Indicators
- Well Depth Indicators
- Downhole Inspection Camera
- Conductivity Logger
- Remote Monitoring Systems

HERON ALSO MANUFACTURES:

Figure 1
Spring Release System with accessories



Spring Release Clip



316 grade S/S Weighted Plopper

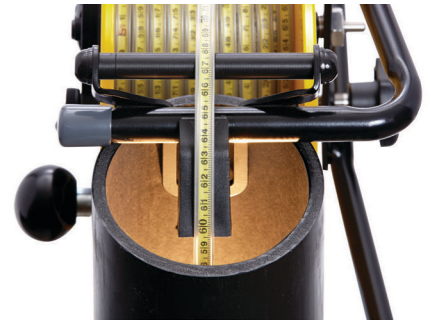


Figure 2
Unique hanger and tape protector supports the meter on the casing and protects the tape from sharp edges on the well casing.

Item	Part Numbers
1" Plopper	8103

IMPORTANT: DO NOT ALLOW THE TAPE AND WEIGHT TO BECOME TRAPPED IN THE BACKFILL MATERIAL.



General Care of the Heron dipper-Tag

Heron Instruments tag line is a quality, robust unit 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 prevent the tape from becoming entangled with other equipment in boreholes or wells, use stilling pipes when possible.
- Neatly rewind and clean the tape after each use.

Refer to: **Cleaning the dipper-Tag**

Warranty is conditional upon adherence to these guidelines

Use in the Field

Reel the tape down the well carefully avoiding the edge of the casing. Hang the **dipper-Tag** on the casing when possible and run the tape over the guide on the frame leg to avoid cuts and nicks to the tape. (See Figure 2)

The **dipper-Tag** weight is lowered down the well until the tape goes slack, indicating that it has reached the bottom. Remove any excess slack in the tape and take the reading from the marked tape at the top of the datum point (example, top of well casing).

The spring release clip allows the user to exchange the weight to other available accessories such as one of our s/s ploppers for measuring static water levels acoustically (See Figure 1) or one of our dipperLogs to measure water levels and temperature for short term analysis. The **dipper-Tag** can also be used with a third party accessories (i.e bailers for water sampling).

The **dipper-Tag** can be used for measuring to the bottom of a well, or the depth to the top of a bentonite layer or backfill sand. **DO NOT** allow the tape and weight to 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.

Cleaning the Heron dipper-Tag

Always clean the unit after use in the field to maintain optimal performance and extend the life of the **dipper-Tag**.

The **dipper-Tag** may be cleaned with any mild household dishwashing detergent and rinsed with water. The reel and tape can be washed with a power washer.

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

Warranty (3 years)

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's 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 having 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 x105** or **905-628-4999 x105**

Warranty is conditional upon adherence to these guidelines.