Level TROLL® 400, 500 & 700 Data Loggers

GET WATER LEVEL DATA THE WAY YOU WANT IT, WHEN YOU WANT IT WITH INDUSTRY-LEADING WATER LEVEL/PRESSURE AND TEMPERATURE DATA LOGGERS. BY PARTNERING WITH IN-SITU, YOU RECEIVE DURABLE LEVEL TROLL® DATA LOGGERS THAT PROVIDE YEARS OF SERVICE, ACCURATE RESULTS, INTUITIVE SOFTWARE, AND REAL-TIME FUNCTIONALITY. USE THE VUSITU™ MOBILE APP TO MANAGE YOUR DATA ON YOUR SMARTPHONE OR TABLET.

BE EFFECTIVE

- **Increase productivity**: Reduce training and installation time with In-Situ’s intuitive software platform and integrated components. Patented twist-lock connectors, included on Level TROLL Data Loggers and RuggedCable® Systems, ensure error-free deployments.
- **Streamline data management**: Use the VuSitu Mobile App to consolidate all site information on your smartphone, and tag data with site photos and GPS coordinates. Simply connect the instrument to a Wireless TROLL Com or power pack, launch the mobile app, and start reading results. Simplify instrument setup, reduce errors and get the most out of your data with Log Setup Assistant and Panoramic Live Data. Log data to your smartphone and download results in a standard Universal Data File format.

- **Set up real-time networks**: Access data 24/7 and receive event notifications when you connect data loggers to Tube and Cube Telemetry Systems, HydroVu Data Services, or other third-party data collection platforms.

BE RELIABLE

- **Deploy in all environments**: Install loggers in fresh water, saltwater, and contaminated waters. Solid titanium and sealed construction outperforms and outlasts specially coated data loggers.
- **Log accurate data**: Get optimal accuracy under all operating conditions. Sensors undergo a 3D, NIST-traceable factory calibration across the full pressure and temperature range. For applications requiring the highest levels of accuracy, use a vented (gauged) system.
- **Get long-lasting operation**: Reduce trips to the field with low-power loggers that typically operate for 10 years.

TOTAL FIELD SUPPORT

- Receive 24/7 technical support and online resources.
- Order data loggers and accessories from the In-Situ website.
- Get guaranteed 7-day service for maintenance (U.S.A. only).

Applications:

- **AQUIFER CHARACTERIZATION: SLUG & PUMPING TESTS**
- **COASTAL: TIDAL, WETLAND & ESTUARY STUDIES**
- **HYDROLOGIC EVENTS: STORM SURGE & FLOOD CONTROL SYSTEMS**
- **LONG-TERM, REAL-TIME GROUNDWATER & SURFACE WATER MONITORING**
- **MINING & REMEDIATION**

www.in-situ.com

CALL OR CLICK TO PURCHASE OR RENT
1-800-446-7488 (toll-free in U.S.A. and Canada)
1-970-498-1500 (U.S.A. and international)
# Level TROLL® 400, 500 & 700 Data Loggers

## General

<table>
<thead>
<tr>
<th>Sensor Type/Material</th>
<th>Piezoresistive, Titanium</th>
<th>Piezoresistive, Titanium</th>
<th>Piezoresistive, Titanium</th>
<th>Piezoresistive, Titanium</th>
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</thead>
<tbody>
<tr>
<td>Range</td>
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<tr>
<td>Level: in., ft, mm, cm</td>
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<tr>
<td>Pressure: psi, kPa, bar, mbar, mmHg, inHg, cmH2O, inH2O</td>
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<tr>
<td>Absolute (non-vented)</td>
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<tr>
<td>Max. 2x range</td>
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<td>Max. 2x range</td>
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<tr>
<td>Burst &gt; 3x range</td>
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<td>Burst &gt; 3x range</td>
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<tr>
<td>Burst pressure</td>
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<tr>
<td>±0.05% FS from -5 to 50°C</td>
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<td>±0.05% FS from -5 to 50°C</td>
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<td>±0.05% FS from -5 to 50°C</td>
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<tr>
<td>Long-term stability</td>
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<tr>
<td>≤&lt;0.1% FS</td>
<td></td>
<td>≤&lt;0.1% FS</td>
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<td>≤&lt;0.1% FS</td>
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<tr>
<td>Resolution</td>
<td></td>
<td>±0.005% FS or better</td>
<td>±0.005% FS or better</td>
<td>±0.005% FS or better</td>
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<tr>
<td>Units of measure</td>
<td></td>
<td>Pressure: psi, kPa, bar, mbar, mmHg, inHg, cmH2O, inH2O</td>
<td>Pressure: psi, kPa, bar, mbar, mmHg, inHg, cmH2O, inH2O</td>
<td>Pressure: psi, kPa, bar, mbar, mmHg, inHg, cmH2O, inH2O</td>
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<tr>
<td>Temperature sensor</td>
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<td>Silicon</td>
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<td>Silicon</td>
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<tr>
<td>Accuracy</td>
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<td>±0.1°C</td>
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<td>±0.1°C</td>
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<tr>
<td>Resolution</td>
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<td>0.01°C</td>
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<td>0.01°C</td>
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<tr>
<td>Units of measure</td>
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<td>Celsius or Fahrenheit</td>
<td></td>
<td>Celsius or Fahrenheit</td>
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</tbody>
</table>

## Warranty

- Level TROLL® 400: 3 years
- Level TROLL® 500: 3 years
- Level TROLL® 700: 3 years

**Notes:**
- 1 data record = date/time plus 2 parameters logged for a total of 360,000, 750,000, and 180,000 data points. (No wrapping)
- Includes linearity and hysteresis over 1 year.
- Up to 5-year (total) extended warranties are available for all sensors.
- Delrin® is a registered trademark of E.I. du Pont de Nemours and Company. Specifications are subject to change without notice.

**References:**
- Temperature range for non-freezing liquids.
- Typical battery life when used within the factory-calibrated temperature range.
- Data logs: 360,000, 750,000, and 180,000 data points. (No wrapping)
- Includes linearity and hysteresis over 1 year.

## Specifications

- **Level TROLL® 400:** Operational: -20 to 80°C (-4 to 176°F) Storage: -40 to 80°C (-40 to 176°F)
- **Level TROLL® 500:** Operational: -20 to 80°C (-4 to 176°F) Storage: -40 to 80°C (-40 to 176°F)
- **Level TROLL® 700:** Operational: -20 to 80°C (-4 to 176°F) Storage: -40 to 80°C (-40 to 176°F)
- **BaroTROLL:** Operational: -20 to 80°C (-4 to 176°F) Storage: -40 to 80°C (-40 to 176°F)