



## Water level sensor with built-in datalogger for surface and groundwater applications

- **Application**  
Surface water, Groundwater
- **Measurement technology**  
Vented pressure cell
- **Parameters measured**  
Waterlevel/Pressure, Water temperature
- **Product Highlights**  
Measures, stores, and transmits water level and temperature data
- **Accuracy**  
 $\pm 0.05\%$  FS
- **Internal data logger**  
Yes

The OTT ecoLog 500 is a complete system for water level and temperature measurement. Designed for full deployment inside groundwater wells as well as surface water applications, the OTT ecoLog 500 offers data and alarm message transmission options via SMS, HTTP, FTP and e-mail, giving users flexible remote data access from their office.

### Water level measurement

|                  |                                    |
|------------------|------------------------------------|
| Measuring ranges | 0 ... 4 m, 10 m, 20 m, 40 m, 100 m |
|------------------|------------------------------------|

# Technical Data

OTT ecoLog 500 Water Level Logger



|                     |                  |
|---------------------|------------------|
| Pressure resolution | 0.01 % FS        |
| Pressure accuracy   | ±0.05 % FS       |
| Long-term stability | ±0.1 % / year FS |

| Temperature measurement |  |
|-------------------------|--|
| Measuring range         | -25 °C ... +70 °C                              |
| Temperature resolution  | 0.1 °C   |
| Temperature accuracy    | ± 0.5 °C; higher accuracy optionally available |

| Electrical data |   |
|-----------------|---|
| Power supply    | Lithium cells, 3.6 V/13 Ah or<br>Lithium cells, 3.6 V/26 Ah |

| Battery life @ 1 h measurement interval & one transmission per week |                  |
|---|------------------|
| Lithium-battery, DD   | approx. 10 years |
| Alkaline batteries, CC (only for version with GSM/GPRS-Modem)       | > 1 year         |

| Modem             |  |
|-------------------|--|
|                   | GSM/GPRS 900/1800, 850/1900 MHz<br><br>GSM/GPRS; UMTS/HSPA+ 900/1800, 850/1900 MHz; 800/850, 900, AWS 1700, 1900, 2100 MHz |
| Antenna           | Built-in, weather-proof, external antenna optionally available   |
| Interface at site | Infrared (IrDA)  |

|                           |                                       |
|---------------------------|---------------------------------------|
| Memory                    | 4 MB, approx. 500,000 measured values |
| Sampling/storage interval | 5 seconds ... 24 hours                |

|              |      |
|--------------|------|
| Installation | ≥ 2" |
|--------------|------|

| Environmental conditions |                    |
|--------------------------|--------------------|
| Operating temperature    | -30 °C ... + 85 °C |
| Storage temperature      | -40 °C ... + 85 °C |

| Dimensions L x Ø   |  |
|--------------------|--|
| Communication unit | 520 mm x 50 mm   |
| Probe              | 195 mm x 22 mm   |
| System length      | 2 ... 200 m ±1 % ±5 cm<br>(Cable length incl. communication unit and pressure probe) |

| Material           |                                      |
|--------------------|--------------------------------------|
| Communication unit | Aluminium, PA-GF                     |
| Sonde              | Stainless steel (DIN 1.4539, 904 L ) |

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We reserve the right to make technical changes and improvements without notice. V-03/07/2024

OTT Hydromet GmbH, Germany



# Technical Data

OTT ecoLog 500 Water Level Logger



| Weight                              |                  |
|-------------------------------------|------------------|
| Communication unit (w/o. batteries) | approx. 0.920 kg |
| Probe                               | approx. 0.300 kg |

| Type of protection |      |
|--------------------|------|
| Communication unit | IP67 |
| Probe              | IP68 |

|            |   |
|------------|---|
| EMC limits | According to EG 204/108/EG,<br>ETSI EN 301 486-1/-7, EN 61326-1<br>EN 60950-1:2006 + A11:2009 + A1:2010 |
|------------|---|