



Self-contained, robust surface and groundwater level logger for measuring water level, temperature, and conductivity.

- **Application**
Eaux de surface, Débitmétrie
- **Measurement range**
Vented pressure cell
- **Parameters measured**
Water level/pressure, water temperature, conductivity (optional)
- **Product Highlights**
Integrated cellular modem (4G / 2G) EU-MEA or IoT LTE-M (CAT M1), Bluetooth Low Energy (BLE), operation via APP, Lithium Powerpack with plug, exact battery level indicator, service life > 10 years, IP data transmission, cable can be shortened on site
- **Rango de medición**
0 ... 4, 10, 20, 40, and 100 m
- **Accuracy**
 $\pm 0.05 \% \text{ FS}$
- **Internal data logger**
Ja

The OTT ecoLog 1000 is a self-contained, robust surface and groundwater level logger for measuring water level, temperature, and conductivity. It provides reliable system up-time

and accurate measurements while avoiding data gaps. It's simple to operate using just a smart phone or PC via integrated Bluetooth Low Energy (BLE) - no additional tools for maintenance or battery replacement. It supports mobile devices, smart phones, and tablets operating with Android, iOS or Windows 10. Configure and monitor your data remotely with integrated two-way mobile communication to avoid unnecessary, expensive trips to your measurement site and send encrypted data with automatic retries if transmission fails.

An OTT ecoLog 1000 variant is available with an optional conductivity sensor. Monitor water quality conditions at your measuring site to gain awareness of not only your water's temperature but the chemical make up as well. Easily calibrate the conductivity cell, view measurement data, and perform diagnostics from your mobile device with the LinkComm Operating Software application.

[Watch Webinar-Recording](#)

WATER LEVEL	
Measurement Range	0 ... 4 m (13 ft), 0 ... 10 m (33 ft), 0 ... 20 m (66 ft), 0 ... 40 m (131), 0 ... 100 m (328 ft) water column
Resolution	0.001 m / 0.1 cm / 0.01 ft / 0.1 inch / 0.0001 bar / 0.001 psi
Accuracy (linearity + hysteresis)	± 0.05 % full scale
Long-term stability (linearity + hysteresis)	± 0.1 %/a full scale
Units	Water level m/cm/bar/ ft, inch, psi
Pressure sensor	ceramic / temperature-compensated
Temperature-compensated operating range	(compensated) -5 °C (ice-free) ... +45 °C

TEMPERATURE	
Measuring range	-25 °C ... +70 °C
Resolution	0.01 °C / 0.02 °F
Accuracy	± 0.1 °C / 0.2 °F
Units	°C/°F

CONDUCTIVITY (OPTIONAL)	
Measuring Range	5 ... 100 000 µS/cm
Calibrated range	+5 °C ... 45 °C +41 °F ... +113 °F
Resolution	1 µS/cm (5 ...2000 µS/cm) · 0.01 mS/cm (0.10 ...100.00 mS/cm)
Accuracy	±0.5 % of measured value (at least ± 1 µS/cm) (5 ...2000 µS/cm) ±1.5 % of measured value (at least ±0.01 mS/cm) (0.10 ...100.00 mS/cm)
Units	mS/cm · µS/cm

POWER	
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Power supply	3.6 V / 26 Ah - Lithium power pack with connector
Battery life time - configuration depending	> 10 years @ average temperature of 20 °C/68 °F, 1 hour sampling and 1 transmission per day (> 5 years with conductivity variant)

RTC CLOCK	
Accuracy	± 26 s / month (at 25 °C / 77 °F) / < ± 3 s using SNTP

INTERFACE	
Networks / Cellular Modem Frequency / Bands	2G GSM, GPRS, EDGE; 900 MHz, 1800 MHz 4G LTE Cat-1 EU/MEA; B3 (1800 MHz), B8 (900 MHz), B20 (800 MHz) LTE-M / Cat M1; B1, B2, B3, B4, B5, B8, B9, B10, B12, B13, B17, B18, B19, B20, B25, B26, B27, B28, B66
Local communication	Bluetooth Low Energy (BLE) 5.0 - up to 10 m (free line of sight)
Antennas	SMA connector with Penta Band Stubby Antenna / BLE built in Chip Antenna

MEASUREMENT	
Measurement values	Water pressure & temperature RSSI / Signal strength Conductivity (optional) PBAT / Power consumption battery Supply voltage Logger Humidity Derived values Water level / depth to water Salinity & Total Dissolved Solids (optional) Sample/storage interval
Sample/storage interval	5 s ... 24 h

DATA TRANSMISSION	
Interval	1 min ... 1/week
IP COM	FTP / FTPS TLS 1.2 HTTP / HTTPS TLS 1.2 MQTT / MQTTS
SMS	SMS data transmission / commands

DATA MEMORY	
Measurement memory	28 MB (approx. 1,000,000 values)
Temperature range, operating	-30 °C ... +85 °C (-22 °F ... +185 °F)
Temperature range, storage	-40 °C ... +85 °C (-40 °F ... +185 °F)
Humidity	5% ... 95 % (non-condensing)
IP rating logger unit	Flood-proof up to 1 week / 1 m (3.3 ft) water column - similar IPx7

Technical Data

OTT ecoLog 1000 Water Level Logger



IP rating sensor	IP68
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DIMENSIONS	
Logger unit	LxD: 525 x 50 mm (2") / LxD: 20.7 x 2.0 inch
Pressure probe	LxD: 195 x 22 mm (<1") / LxD: 7.7 x 0.9 inch
System length	0 ... 200 m (> 200 m on request) / 0 ... 656 ft (>656 ft on request)

WEIGHT	
Logger unit incl. battery pack	~ 900 g (~ 31.7 oz)
Pressure probe	~ 670 g (~ 23.6 oz)
Pressure probe cable	~ 42 g/m (~ 1.48 oz/m)

MATERIAL	
Pressure probe housing	Stainless steel 1.4539 (904L)
Logger housing	Aluminum / POM
Cable jacket	PUR

REGULATORY	
EU directives compliance	CE
US directives compliance	FCC / IC
PTCRB	According to NAPRD03
Provider Certification	Verizon Open Development Certification, AT&T IoT Device Certification

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We reserve the right to make technical changes and improvements without notice. V-13/07/2025
OTT Hydromet GmbH, Germany

