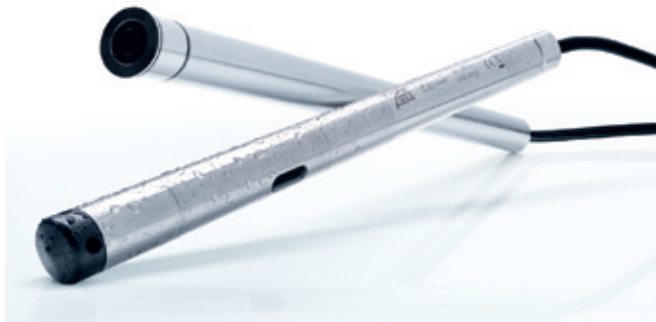


**Level and conductivity
measurement**

OTT CTD – groundwater data logger
with conductivity measuring cell



OTT CTD

Groundwater Data Logger

The OTT CTD is a professional data logger for the measurement of water level, temperature and conductivity. Furthermore, it can also output salinity and TDS (total dissolved solids). The CTD saves all measurements in the integrated, non-volatile 4 MB ring buffer (approx. 500,000 values).

In addition to the proven product characteristics of high-quality pressure probes from OTT, the OTT CTD provides a conductivity measuring cell that meets all the demands of hydrological data collection. Overall, the OTT CTD has proved to be reliable and indestructible. This is ensured by the robust and reliable measuring cells, the saltwater resistant stainless-steel housing, the kevlar-strengthened probe cable with integrated compensating capillary and an ingenious design.

The infrared interface allows the data to be conveniently read out or transferred from the device with a notebook. A well structured, intuitive operating program with all the necessary functions for data output and export, configuration and calibration is supplied. And if remote data transmission is needed: with the OTT ITC, the CTD can easily be equipped for data transmission using GSM/SMS or GPRS.

Quantitative
Hydrology

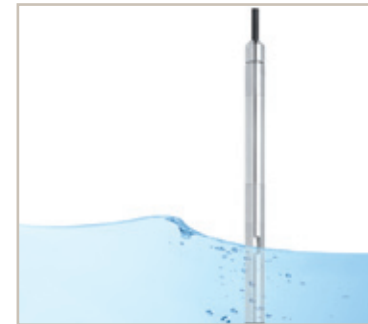


Conductivity measurement

Thanks to the 4-electrode-design and the high-grade graphite electrodes, the conductivity measuring cell is insured to polarization effects and contamination. This guarantees reliable measuring data even in harsh environments.

Technical data

Parameters	water level/pressure, temperature, specific conductivity, salinity, TDS	
Water level measurement		
Range	0 ... 4 m, 0 ... 10 m, 0 ... 20 m, 0 ... 40 m, 0 ... 100 m	
Resolution	0.001 m, 1 cm, 0.01 ft, 0.1 ft, 0.1 in, 1 in	
Accuracy (linearity + hysteresis)	±0.05 % FS	
Units	m, cm, ft, inch, bar, psi	
Pressure sensor	ceramic; temperature compensated	
Overload protection* pressure sensor	>4 x measurement range	
*no lasting mechanical damage		
Temperature compensated range	-5 °C ... +45 °C (ice-free)	
Temperature measurement		
Range	-25 °C ... +70 °C	
Resolution	0.01 °C	
Accuracy	±0.1 °C	
Units	°C, °F	
Conductivity measurement		
Range	0.001 ... 2.000 mS/cm	0.10 ... 100.00 mS/cm
Resolution	0.001 mS/cm	0.01 mS/cm
Accuracy	±0.5 % of meas. value (min. ±0.001 mS/cm)	±1.5 % of meas. value (min. ±0.01 mS/cm)
Units	mS/cm, µS/cm	mS/cm
General data		
Power supply	3 x 1.5 V battery (LR6, AA, FR6 AA) alkaline or lithium	
Operating life (1 h polling interval, 50 m cable)	≥5 years (lithium); ≥1.5 years (alkaline)	
Interface	Infrared (IrDA)	
Data memory	4 MB / approx. 500.000 values	
Polling- / storage interval	5 seconds ... 24 hours	
Dimensions communication unit	400 mm x 22 mm (L x Ø)	
Dimensions pressure probe	317 mm x 22 mm (L x Ø)	
Material of pressure probe housing	stainless steel DIN 1.4539 (904 L)	
EMV limits	complies with EN 61000/ EN 55011 Class B	



Applications

Control measurements in areas of potential pollution, e.g.:

- Environmental checks of groundwater and surface waters
- Monitoring of bank filtration wells
- Monitoring of saltwater intrusion
- Determination of geogenic groundwater salinization
- Renaturation of former sand and gravel pits or of wetlands
- Recultivation of contaminated sites and devastated open-cast mining areas
- Aquifer storage and recovering
- Areas used intensively for agriculture

Benefits

- 4-electrode conductivity measuring cell minimizes polarization effects
- Robust, ceramic capacitive pressure cell with long-term stability
- Corrosion and saltwater resistant housing material
- Large memory capacity
- Operating software with simple user guidance
- Can be used immediately due to precalibration
- Simple battery changes: the probe remains in the water
- Minimal maintenance
- Easily equipped for data communication using GSM/GPRS

OTT – Your Partner for:

- Water level measurement in ground- and surface water
- Discharge measurement
- Precipitation measurement
- Water quality measurement
- Data management and communication
- Installation, maintenance and training

Germany

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