



## Pressure sensor for longterm measurement of conductivity, temperature and water level

- **Application**  
Surface water, Groundwater
- **Measurement technology**  
Vented pressure cell and 4-electrode graphite conductivity cell
- **Parameters measured**  
Waterlevel, Temperature, Conductivity
- **Product Highlights**  
Measures and stores water level, temperature, and conductivity data
- **Measurement range**  
Water level: 0 ... 4, 10, 20, 40, and 100 m Conductivity: 0.001...2.000 mS/cm, 0.10...100.00 mS/cm
- **Accuracy**  
 $\pm 0,05$  % FS
- **Internal data logger**  
Yes

The OTT CTD is an integrated sensor and datalogger for measurement of water level, temperature, and conductivity in groundwater and surface water applications. It features a robust ceramic measuring cell for long term accuracy and has outputs for

salinity and total dissolved solids (TDS). Its built in datalogger manages and stores all measurements at user-programmable intervals.

Lifetime (@ 1 h interval)	
with Lithium-batteries	≥5 years
with Alkaline-batteries	≥1.5 years
Interface	Infrared (IrDA)

### Datalogger

Memory	4 MB
--------	------

Amount of values	approx. 500,000
Measurement interval	5 sec ... 24 h
Storage interval	5 sec ... 24 h

Installation	≥ 1"
--------------	------

Material	ABS, POM, stainless steel 1.4539 (904 L)
----------	--

### Weight

Com unit (incl. bat)	approx. 0.410 kg
Sonde	approx. 0.430 kg

### Dimensions

Com unit L x Ø	400 mm x 22 mm
Sonde L x Ø	317 mm x 22 mm

Max system length	1.5 ... 200 m ±1 % ±5 cm
-------------------	--------------------------

Storage temperature	-40 ... +85 °C
---------------------	----------------

### Protection class

Com unit	IP67 (water column max. 2 m, duration max. 24 h)
Sonde	IP68

### Water level measurement

Measurement range:	0 ... 4 m, 10 m, 20 m, 40 m, 100 m
Resolution:	0.001 m / 0.1 cm / 0.01 ft / 0.1 inch / 0.0001 bar / 0.001 psi
Accuracy:	± 0.05 % FS
Units:	m, cm, ft, inch, bar, psi
Temperature compensated operating range	-5 ... +45 °C (icefree)

### Temperature measurement

#### 2-3

We reserve the right to make technical changes and improvements without notice. V-01/03/2024

OTT Hydromet GmbH, Germany

Measurement range:	-25 ... +70 °C
Resolution:	0.01 °C
Accuracy:	± 0.1 °C

### Conductivity measurement Measurement range selectable

Measurement range 1:	0.001 ... 2.000 mS/cm
Resolution:	0.001 mS/cm
Accuracy:	±0.5 % of measurement value; (min ±0.001 mS/cm)
Units:	mS/cm / µS/cm

Measurement range 2:	0.1 ... 100 mS/cm
Resolution:	0.01 mS/cm
Accuracy:	±1.5 % of measurement value; (min ±0.01 mS/cm)
Units:	mS/cm

<b>Electrical data</b>	
Power supply	Lithium or Alkaline batteries 3 x 1.5 V battery (LR6-AA, FR6-AA)