

CTD-IoT-compact

CTD-Recorder incl. LoRaWAN™ telemetry



Application areas/ device characteristics

- Automatic measurement of water level, conductivity and temperature
- Applicable from 2 inch diameter ground water monitoring wells
- Data transfer via LoRaWAN™ telemetry
- Alarm functionality

Technical data – CTD-probe

Water level:

Relative pressure:	0 – 10 m; 0-20 m; 0 – 50 m; 0-100 m water level
Absolute pressure:	800-2100 mbar; 800-6100 mbar
Accuracy:	0,05% FS at 10°C...40°C, resolution 0,002% FS + drift
Temperature sensor:	0°C...+50 °C – no frozen water
Conductivity:	Graphite electrode
Two electrode system	Option 1: 0-20 mS/cm; resolution 1 µS/cm
Four electrode system	Option 2: 0-0,2/2/20/200 mS/cm; resolution up to 0,1 µS/cm
Calculated parameter	Salinity; TDS
Diameter:	22 mm
Material:	Stainless steel 1.4571; 1.4305; POM, NBR; EPDM
Probe cable:	PUR with air pressure capillary

Technical data – data logger LogTrans IoT-compact

Dimensions:	Diameter 48 mm, length 700 mm
Material:	Stainless steel/ plastic
Protection degree:	Option 1 – with air pressure membrane: IP 65 Option 2 – without air pressure membrane: IP 68 Option 3 – with air pressure sensor 800-1200 mbar : IP 68
Temperature:	-25°C ... 70°C – no frozen water
Storage:	512 MB – suitable 1.000.000 data sets
Power supply:	2 lithium batteries 3,6V/ 13 Ah or 4 Alkaline Baby 1,5 V – 3 Ah or 3 Li-accumulators 5,2 Ah – will be defined with the quotation
Wireless data transfer:	LoRaWAN™ modem
Standard antenna:	1 dB
External Antenna:	Option: mountable with the same protection degree
Interface:	USB – for parameterization of system or read out of data

Data transmission – receiver stations

Gateway LoRaWAN™	Integration in existing LoRaWAN gateways with downstream external infrastructure from third-party providers
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Modifications contributing to technical progress are subject to change without notice!



Umwelt- und Ingenieurtechnik GmbH Dresden
Zum Windkanal 21, 01109 Dresden
Germany

Telefon: +49 351 8864600
Fax: +49 351 8865774
E-Mail: info@uit-gmbh.de
Internet: www.uit-gmbh.de