

DO-IoT-compact

Dissolved Oxygen-Recorder incl. LoRaWAN™ telemetry



Application areas/ device characteristics

- Automatic measurement of dissolved oxygen in water
- Applicable from 2 inch diameter ground water monitoring wells
- Data transfer via LoRaWAN™ telemetry
- Alarm functionality

Dissolved Oxygen probe

Measurement principle:	LDO –Oxygen dependent Luminescence quenching no consumption of oxygen
Measurement parameter:	Dissolved Oxygen and temperature
Range:	0-40 mg/l (0-40 ppm)
Accuracy at 25°C:	0,4 ppm +/- 5%; 8 ppm +/- 1%; 20 ppm +/- 5%
Response time t90%:	< 30 s at 25°C
Temperature sensor:	Internal temperature sensor NTC 22 kOhm
Operating temperature:	0-60 °C
Protection degree:	IP 68 (-1 bar...6 bar)
Dimensions:	Diameter: 20 mm; Length: 120 mm
Material:	PVC-U/ PA/ PUR/PE
Sensor cup:	ODO Cap H20
Probe cable:	10 m cable length

Technical data – data logger LogTrans IoT-compact

Dimensions:	Diameter 48 mm, length 700 mm
Material:	Stainless steel/ plastic
Protection degree:	IP 65
Temperature:	-25°C ... 70°C – no frozen water
Storage:	512 MB – suitable 1.000.000 data sets
Power supply:	3 pieces of Lithium Ion accumulator 5,2 Ah
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!



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