

# SENSOdive-IoT-compact

## Multi parameter probe incl. LoRaWAN™ telemetry



### Application areas/ device characteristics

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

Multi parameter probe	
Number of parameters:	3 sensors plus water level and temperature installable
Conductivity sensor:	Range 0 ... 0,2/2/20/200 mS/cm; resolution 1 µS/cm automatic range switching – graphite electrode
pH-Wert:	Range 1 ... 14, resolution ΔpH = 0,01
Redox potential (ORP):	Range –2000 ... +2000 mV, resolution 1 mV
Combi-sensor pH/Redox:	Range 1 ... 14; range –2000 ... +2000 mV
Oxygen [O <sub>2</sub> ]:	0 ... 40 mg/l O <sub>2</sub> , resolution 0,01 mg/l O <sub>2</sub> – LDO measurement principle
Water level:	0-20 mWs, 0-50 mWs, 800-2100 mbar, 800-6100 mbar
Temperature sensor:	Range: 0 ... 50°C, resolution 0,04°C
Dimensions:	Diameter: 48 mm; Length: 600 mm
Material::	Stainless steel; POM; PUR, EPDM, NBR, PE plus Sensor material
Operating temperature:	0-40°C no frozen water
Probe cable:	PUR, PE – Option internal air pressure capillary
Detailed technical data of sensors, see specific data sheets	
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

Modifications contributing to technical progress are subject to change without notice! The equipping status will be defined with the quotation.



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