

WR-IoT-box

Water level recorder incl. LoRa™ or LoRaWAN™ telemetry



Application areas/ device characteristics

- Automatic measurement of water level and temperature
- Possibility of changing the sampling time depending on measured values
- Automatic data transfer by LoRa™ or LoRaWAN™ telemetry

Technical data – water level sensor

Range:

Relative pressure: 0-20 m – other ranges on request

Absolute pressure: On request

Diameter: 22 mm

Material: Stainless steel 1.4571; 1.4435; 1.4305; POM, NBR; EPDM

Accuracy 0.2 % FS in the range of 0°C...30°C + drift, resolution 2 mm

Temperature sensor 0°C...+50 °C; resolution 0.1 °C

Sensor cable: Thread with protective cap G ¼"

Range: With reference capillary, cable material PUR

Technical data – data logger IoT-box

Dimensions: Length 161 mm; Height 62 mm; Width: 90 mm

Material: Plastic

Protection degree: Option 1 – with air pressure membrane: IP 65
Option 2 – without air pressure membrane: IP 67

Temperature range: -25°C ... 70°C

Storage: Without data storage

Power supply: 4 pcs. Lithium batteries Type AA Energizer L91/1.5V – 3Ah
other types on request

Data transmission/ Modem: LoRaWAN™ Modem – Class A

Standard antenna: Internal adhesive antenna - mounted in the housing

External antenna: Option – must be prepared when delivered, otherwise cannot be retro-fitted

Interface: USB for parameterization

Parameterization: By software **SENSOlog**

Data transmission – receiver stations

Variant LoRa™ Gateway made by UIT GmbH Dresden to transmit data through:
- FTP to an FTP Server
- http to WEB-platform SENSOweb made by UIT GmbH Dresden

Variant 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!



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