

# WR-IoT-compact

## Water level recorder incl. LoRa™ or LoRaWAN™ telemetry



### Application areas/ device characteristics

- Automatic measurement of water level and temperature
- Applicable from 2 inch diameter ground water monitoring boreholes
- Automatic data transfer by LoRa™ or LoRaWAN™ telemetry
- Alarm functionality

### Technical data – water level sensor

Range:	Other ranges on request
Relative pressure:	0 – 10 m; 0-20 m; 0 – 50 m; 0 – 100 water level
Absolute pressure:	800 – 2100 mbar; 800 – 6100 mbar
Diameter:	22 mm
Material:	Stainless steel 1.4571; POM, NBR; EPDM
Accuracy	0.05% FS at 10°C...40°C, resolution 0.002% FS + drift
Temperature sensor	Range 0°C ... +50 °C
Sensor cable:	With reference capillary, cable material PUR

### Technical data – data logger LogTrans-IoT

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 – without membrane, with air pressure sensor: IP 68
Temperature:	-25°C ... 70°C
Storage:	512 MB – suitable for 1.000.000 data sets
Power supply:	2 lithium batteries 3.6V/13 Ah or 4 alkaline Baby 1.5 V/3 Ah will be defined with the quotation
Wireless data transfer:	LoRa™ or LoRaWAN™ modem – will be defined with the quotation
Standard antenna:	2 dB
External antenna:	<b>Option:</b> Mountable with the same protection degree
Interface:	USB for parameterization for system or read out of data
Parameterization:	By use of software <b>SENSOlog</b>

### Data transmission – receiver stations

Variant LoRa™	Gateway made by UIT GmbH Dresden to transmit data through ... - FTP to a 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!**



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

Telefon: +49 351 88646-82  
Fax: +49 351 8865774  
E-Mail: [vertrieb@uit-gmbh.de](mailto:vertrieb@uit-gmbh.de)  
Internet: [www.uit-gmbh.de](http://www.uit-gmbh.de)