

OFW-GPRS

Surface water measurement including wireless data transfer



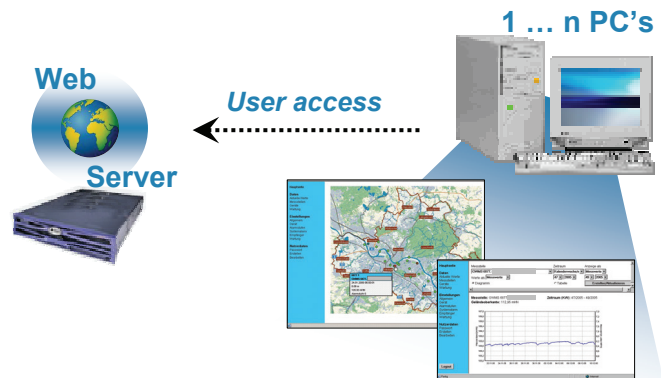
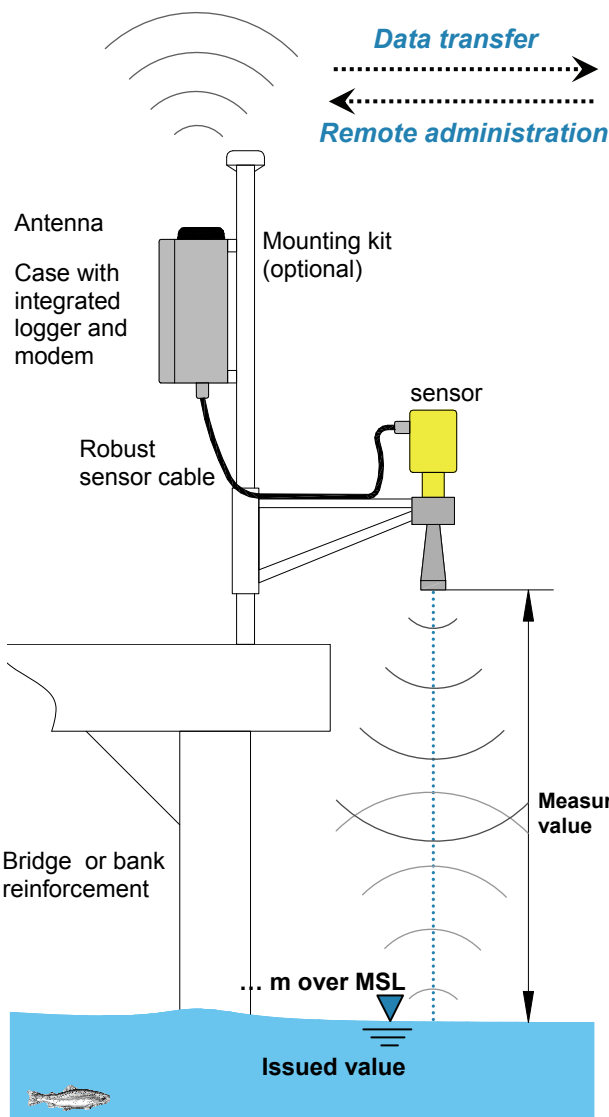
Data logger with integrated modem, planar antenna

High accuracy surface water measurement

Your advantages:

- No impact based on floating debris (flotsam), sludge, fouling
- Easy mounting at bridges
- Low cost maintenance
- Low power consumption
- Secure and reliable data transfer
- Real-time alarm notification

Radar sensor or ultra sonic sensor for contact free measuring of surface water level



Measuring principle

- 1st Short impulse will be send
- 2nd Response signal will be received
- 3rd Distance of water level response directly to the run of the impulse

Wireless data transfer

- ⇒ Direct access to the web Server
- ⇒ Actual water level data accessible via any web enabled device for many user simultaneously
- ⇒ Defined and low operating costs (data transfer only, no time-dependent charges)

Alarm management and notification

- ⇒ Real-time notifications:
 - ⇒ Low battery power
 - ⇒ Exceeding of defined threshold-values
 - ⇒ Displaying field strength
- ⇒ Alarm notifications via SMS, Fax



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Data logger	
Input	3 x analogue inputs, single ended
Resolution	15 Bit
Counter Inputs	2 counter inputs
Interfaces	RS 485 for connection of UIT probe RS 232 for connection of camera K1
Interface	USB for read out of data and parameterization of data logger
Memory	512 MB for data and 512 MB for pictures
Sampling time	1 min – 24 h customizable
Wireless data transfer	GPRS/ GSM modem, 4 band GSM/ GPRS modem
Antenna	Antenna , 2 dB
SMS alarm notification	Two channels with up to 6 alarm notifications
Power supply – data logger	U _b 5-13 VDC, current consumption: sleep < 1 mA, measuring approx. 20 mA, data transfer: 100 mA up to 2 A
Variant 1– integrated accumulator	Accumulator 12 V; 6,5Ah for data logger and sensors
Variant 2 - solar	Additional solar control unit installed in the field
Variant 3 – power supply unit	Additional power supply unit 220 VAC/ 12 VDC, 3 A
Power supply - sensor	Optional DC/DC converter, maximal performance 230 mA
Temperature operation range	-25°C...+50°C
Protection degree	IP 65
Size and case	Aluminum injection molding 330x230x115 mm
Radar sensor	
Measuring range	0,2 ... 15 m – other ranges on request
Beam angle/ Frequency	10°/ K-band (26 GHz technology)
Accuracy/ Resolution:	Acc. +/- 2 mm add. +/- 0,03 % FS/10K / Res. +/- 2 mm
Output/ Power supply	4 – 20 mA/ 9,6...36 VDC
Temperature operation range	- 40°C...+80°C
Material case	Plastics
Size radar sensor	Diameter 75 mm (case only); total length 300 mm
Ultrasonic sensor	
Measuring range	0,4 – 8 m
Beam angle/ Frequency	11°/ 55 kHz
Accuracy/ Resolution	Accuracy: +/- 4 mm or 0,2 % or +/- 10 mm/ Resolution 4 mm
Output/ Power supply	4-20 mA/ 14...36 VDV
Material case	Plastics
Size ultrasonic sensor	Diameter 50 mm (Ultra sonic part) ; total length: 270 mm

The data sheet described optional configuration. The detailed scope of delivery will be described with the quotation.



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