UMWELTLEISTUNGEN

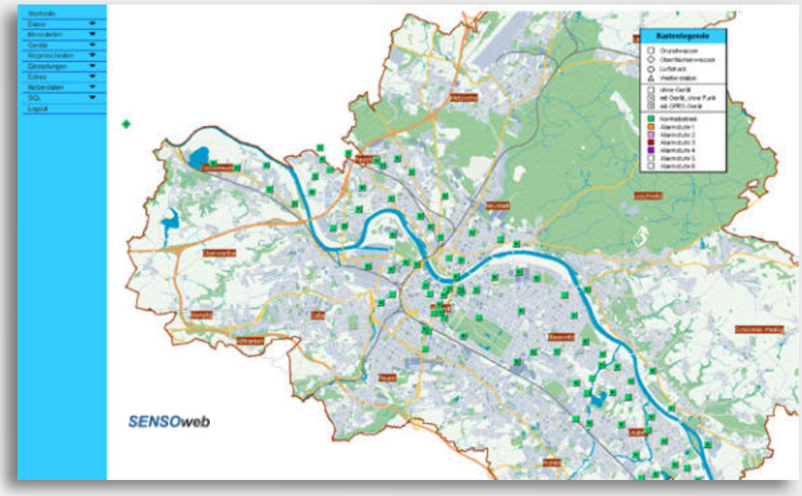
Hydrological Monitoring

Technology pro Environment

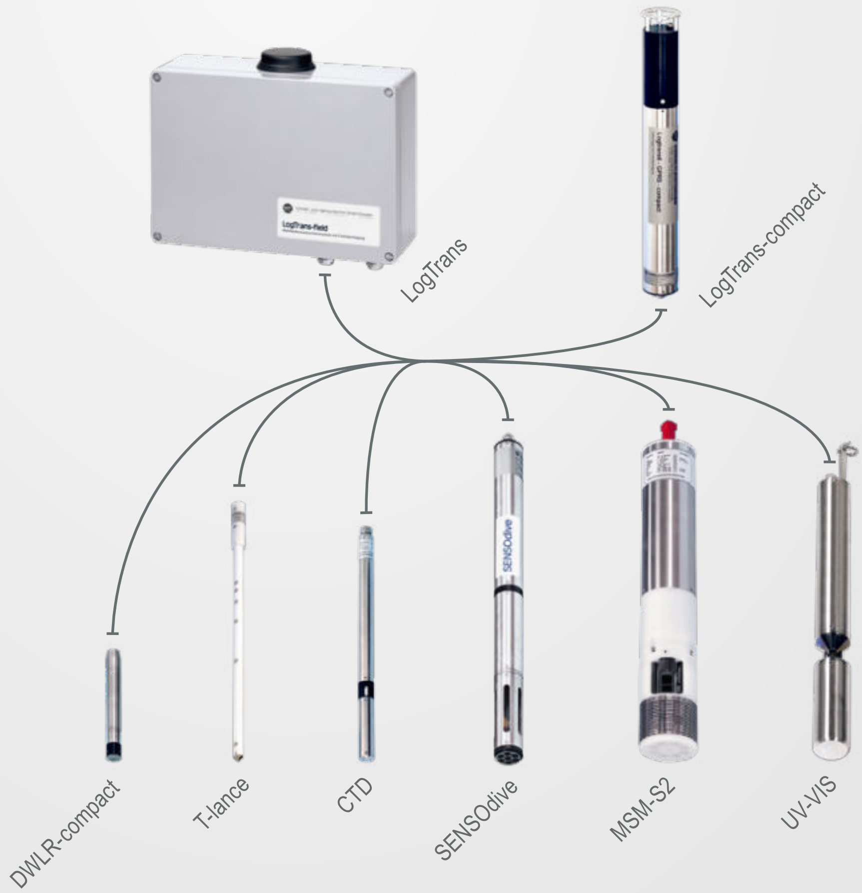
Remote Sensing/ Monitoring

Probes))))))))))))))))))))))) Wireless Telemetry))))))))))))))) Data Management

SENSOweb ©

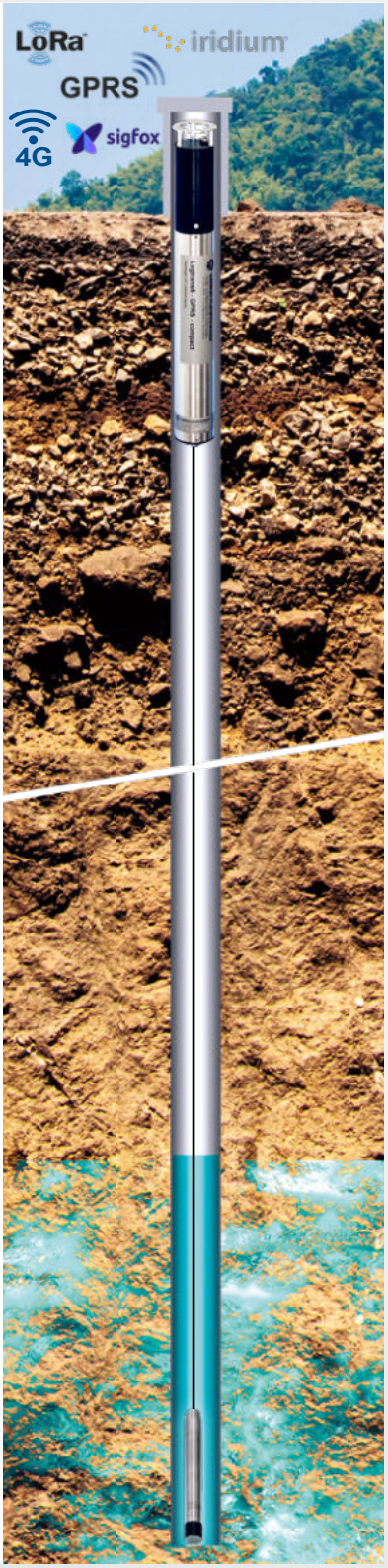


GPRS LoRa sigfox 4G iridium



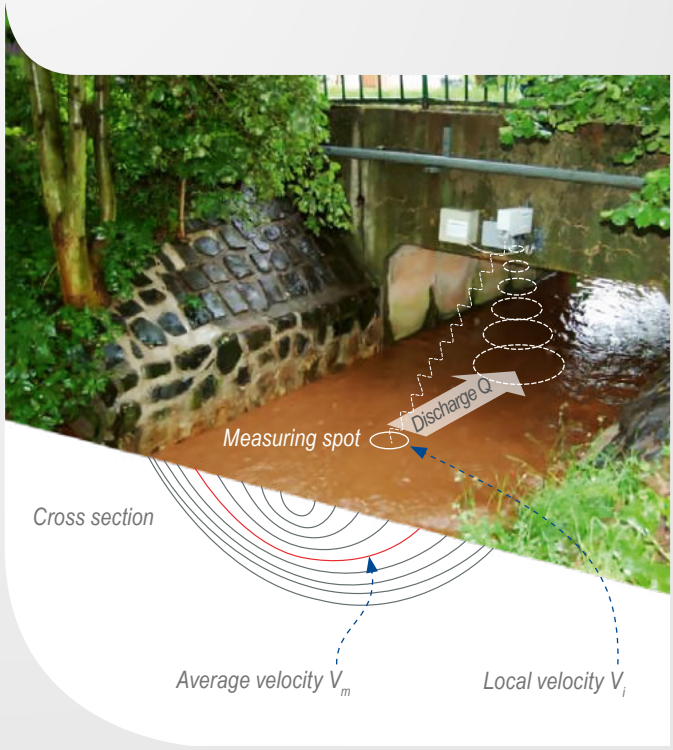
Applications

GROUNDWATER



SURFACE WATER/ PRECIPITATION

DISCHARGE/ FLOW MEASUREMENT



DWLR compact
Water level recorder

The digital water level recorder ***DWLR compact*** is a measurement system for measuring and storing data for water level and temperature. The ***DWLR compact*** impresses with precise sensors, a powerful integrated data logger, and a very low power consumption combined with a long battery life.

Water level probe/ temperature sensor	
Water level probe:	
Relative pressure	*0…20 m water level*
Linearity	*0.1 % FS*
Temperature sensor	
Measuring range	*0 °C … +40 °C*
Resolution	*0.1 °C*

Data logger	
Memory	*4 MB*
Number of data sets	*256,000*
Sampling rate	*Data logger 5 seconds - 24 hours, on-line from 30 seconds*
Power supply	*1 pc of lithium battery, approximately 10 years of operating at one measurement per hour*
Interface	*RS 485/ USB*

Mechanical dimensions/ material/ environmental conditions	
Dimensions	*Diameter: probe incl. data logger 22 mm; length: 240 mm*
Material	*Stainless steel 1,4301, sealing NBR, EPDM*
Probe cable	*Material PUR, diameter 6 mm | Probe cable incl. air pressure capillary*
Protection degree	*Read out connector: IP 65*

DWLR-compact

e-mail support
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phone support
+49 351 88646-00

WR-4G compact
Water level recorder with innovative telemetry

The ***WR-4G compact*** water level recorder is a measurement system for measuring and storing water level and temperature data, including remote data transmission technology. The ***WR-4G compact*** has a complex alarm functionality and is therefore ideal for early warning applications. The system is also available in a flood-proof design.

Water level probe/ temperature sensor	
Relative pressure	*0 ... 10 m; 0 ... 20 m; 0 ... 50 m; 0 ... 100 m water level*
Absolute pressure	*800 ... 2,100 mbar; 800 ... 6,100 mbar; 800 ... 11,100 mbar*
Diameter	*22 mm*
Accuracy	*0.05 % FS at 10° … 40° C; resolution 0.002 % FS + drift*
Temperature sensor	*Range 0 °C … +50 °C*

Data logger LogTrans 7 –-compact	
Dimensions	*Diameter 48 mm; length 700 mm*
Protection degree	*Option 1 – with air pressure membrane: IP 65* *Option 2 – without air pressure membrane : IP 68* *Option 3 – without capillary, with air pressure sensor: IP 68*
Option air pressure sensor	*800-1,200 mbar, installed in the data logger*
Temperature range	*-25 °C ... 70 °C*
Power supply	*2 - 4 lithium batteries– 13/26Ah or 4 alkaline Baby 1.5 V (Duracell) or 2 x Li-Ion accumulators, 5.2 Ah, Definition with offer*
Wireless data transfer	*GSM/ GPRS modem, 900 MHz, 1,800 MHz, GSM: 800, 850, 1,900 MHz plus 4G (LTE) or 4B NB-IoT Modem*
Optional: external antenna	*Mountable with the same protection degree*
Data security	*Option: TLS – Client-server certificate*
Interface	*USB – to be parameterized with **SENSOlog***

GPRS-data transmission – receiver station	
Receiver station	*FTP-server or WEB-Server with **SENSOweb***

WR-4G-compact

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WR-sat compact
Water level recorder with satellite telemetry

The water level recorder ***WR-sat compact*** is a measuring system for measuring and storing the water level and temperature and transmits the data using the Iridium satellite system. It thus has the widest possible complete world-wide network coverage. Even in the event of failure of classic land-based data transmission technology (GPRS; 4G, etc.), the water level measurement system with satellite transmission can still function reliably.

Water level probe/ temperature sensor	
Relative pressure	*0 ... 10 m; 0 ... 20 m; 0 ... 50 m; 0 ... 100 m water level*
Absolute pressure	*800 ... 2,100 mbar; 800 ... 6,100 mbar; 800 ... 11,100 mbar*
Diameter	*22 mm*
Accuracy	*0.05 % FS at 10 °C … 40 °C; resolution 0.002 % FS + drift*
Temperature sensor	*Range 0 °C … +50 °C*

Data logger LogTrans 7 – sat compact	
Dimensions	*Diameter 48 mm, length 700 mm*
Protection degree	*Option 1 – with air pressure membrane: IP 65* *Option 2 – without capillary: IP 68* *Option 3 – without capillary, with air pressure sensor: IP 68*
Option: air pressure sensor	*800 - 1,200 mbar, installed in data logger*
Temperature range	*-25 °C ... 70 °C*
Power supply	*2 - 4 lithium batteries– 13/26Ah or 4 alkaline Baby 1.5 V (Duracell) or 2 x Li-Ion accumulators, 5.2 Ah, Definition with offer*
Wireless data transfer	*Integrated Iridium Modem for the Iridium Satellite System with most complete worldwide coverage ; Iridium Modem 1616...1626,5 MHz;* *no activation via SIM card, but activation by IMEI registration with the provider*
External antenna	*necessary*
Interface	*USB – to be parameterized with **SENSOlog***

SAT - data transmission – receiver station	
Receiver station	*Via e-mail or **SENSOweb**-server - see infographic*

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WR-IoT compact
Water level recorder with LoRaWAN™

The ***WR-IoT compact*** water level recorder uses **LoRa*WAN™*** technology (Long Range Area Network) and can therefore transmit data to the gateway at close range without using a mobile phone provider. From here, the data can be transmitted to the server via Ethernet or 2/3/4 G technology. The **LoRa*WAN™*** technology is extremely energy efficient; a battery life of up to several years can be achieved. An additional advantage is that the signal easily transmits through buildings and is able to transfer data from under-floor measuring points. This technology is ideal for building up your own networks.

Water level probe/ temperature sensor	
Relative pressure	*0 ... 10 m; 0 ... 20 m; 0 ... 50 m; 0 ... 100 m water level*
Absolute pressure	*800 ... 2,100 mbar; 800 ... 6,100 mbar; 800 ... 11,100 mbar*
Diameter	*22 mm*
Accuracy	*0.05% FS at 10…40°C; resolution 0.002 % FS + drift*
Temperature sensor	*Range 0°C…+50 °C*

Data logger LogTrans IoT compact	
Dimension	*Diameter 48 mm, length 700 mm*
Protection degree	*Option 1 – with air pressure membrane: IP 65* *Option 2 – without capillary or with air pressure sensor: IP 68*
Option: air pressure sensor	*800 ... 1,200 mbar, installed in data logger*
Temperature range	*-25 °C ... 70 °C*
Power supply	*2 - 4 lithium batteries– 13/26Ah or 4 alkaline Baby 1.5 V (Duracell) or 2 x Li-Ion accumulators, 5.2 Ah, Definition with offer*
Wireless data transfer	*LoRa® or LoRaWAN®*
Option: external antenna	*Mountable with the same protection degree*
Interface	*USB – to be parameterized with **SENSOlog*** *optional Bluetooth LE for wireless parameterization of basic parameters*

LoRa*WAN* – receiver station	
Receiver station	*Gateway with data transfer via 4G or Ethernet to an FTP- or **SENSOweb**-server*

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OFW-GPRS
Surface water measurement system

The surface water measurement system - ***OFW-GPRS*** is a stationary measurement system for non-contact water level measurements using radar or ultrasonic sensors, including data loggers and remote data transmission technology - ideal for early warning systems. The system can be combined with the "***K1 camera***" to visualize the current situation on site.

Radar sensor	
Range	*0.2 … 15 m – other ranges on request*
Beam angle/ frequency	*10°/ K-band (26 GHz technology) or 8° (80 GHz technology) – see quotation*
Accuracy/ resolution	*Accuracy +/- 2 mm add +/- 0.03 % FS/10 K/ Res. +/- 2 mm*
Dimensions	*Ø 75 mm, length 300 mm or Ø 79 mm ; screw G 1½", length 109 mm (80 GHz)*

Camera K1	
Technical data	*640 x 480 Pixel, angel 60°, interface RS 232*
Dimensions	*Diameter: 75 mm, length: 120 mm, IP 67*

Data logger LogTrans-field	
Inputs	*6 analogue inputs/ 16 Bit resolution, 2 counter inputs*
Interfaces	*MODBUS, RS 485; RS 232 for the connection of camera K1*
Interfaces	*USB 2.0 for parameterization – optional Bluetooth LE*
Memory	*512 MB for data und 512 MB for images*
Wireless data transfer	*Integrated 4 band GSM/GPRS modem – optional 4G I optional satellite*
Alarm notification	*Two channels with up to 6 alarm notifications*
Power supply	*Accumulator 12 V, 6.5 Ah for data logger and sensor*
Case/dimensions	*Aluminium 330 x 290 x 115 mm, incl. antenna, IP 65*
Alternative data loggers	*See pages 17 ... 18*

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SENSOflow ©
Discharge Measurement System

The robust non-contact flow measurement system ***SENSOflow*** measures the flow velocity and water level, and can calculate the discharge directly in the device. The discharge sensor is compatible with the *LogTrans-field* data logger. The system can also be combined with the "*K1 camera*" to visualize the current situation on site.

SENSOflow	
Flow rate measurement	*Measuring principle: Doppler-frequency shift* *Range: 0.2 ... 15 m/s; resolution up to 1 mm/s* *Measuring frequency: 24 GHz, angle of reflected beam: 10°*
Water level	*0.2 ... 15 m, resolution 2 mm,: 26 GHz technology*
Discharge	*By calculation directly in device*
Basic requirement	*Roughness of water surface 3 mm*
Dimensions	*220 mm x 190 mm x 130 mm*

Camera K1	
Technical data	*640 x 480 Pixel, angel 60°, interface RS 232*
Dimensions	*Diameter: 75 mm, length: 120 mm, IP 67*

Data logger LogTrans-field	
Inputs	*6 analogue inputs/ 16 Bit resolution, 2 counter inputs*
Interfaces	*MODBUS, RS 485; RS 232 for the connection of camera K1*
Interfaces	*USB 2.0 for parameterization – optional Bluetooth LE*
Memory	*512 MB for data and 512 MB for images*
Wireless data transfer	*Integrated 4 band GSM/GPRS modem – optional 4G I optional satellite*
Power supply	*Accumulator 12 V, 6.5 Ah for data logger and sensor*
Case/dimensions	*Aluminium 330 x 290 x 115 mm, incl. antenna, IP 65*

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SENSOflow

SENSOpipe ©
Flow measurement in pipes

The ***SENSOpipe*** measurement system allows the determination of the volume flow in fully filled pipes. For this purpose, the flow velocity in the pipe is measured and the volume flow is calculated. The ***SENSOpipe*** measurement system is compatible with the *LogTrans-field* data logger.

SENSOpipe	
Measuring principle	*Magnetic-inductive, in pipe installation – one installation point for velocity measurement and calculation of flow rate*
Measuring range	*0.02 ... 2.5 m/s alternatively 0.1 ... 10 m/s*
Accuracy	*± 1% of measured velocity or ± 0.03 m/s under reference conditions – the respectively larger value applies*
Electrical conductivity	*Minimum conductivity of water: 10 µS/cm*
Pipe diameter	*Suitable for pipe diameters larger than 200 mm*
Mounting adaptor	*Required mounting adaptor to be mounted on pipe*

Data logger LogTrans-field	
Inputs	*6 analogue inputs/ 16 Bit resolution, 2 counter inputs*
Interfaces	*MODBUS, RS 485; RS 232 for connection of camera K1*
Interfaces	*USB 2.0 for parameterization – optional Bluetooth LE*
Memory	*512 MB for data und 512 MB for images*
Wireless data transfer	*Integrated 4 band GSM/GPRS modem – optional 4G I optional satellite*
Alarm notification	*Two channels with up to 6 alarm notifications*
Power supply	*Accumulator 12 V, 6.5 Ah for data logger and sensor*
Case/dimensions	*Aluminium 330 x 290 x 115 mm, incl. antenna, IP 65*
Alternative data loggers	*See pages 17 ... 18*

SENSOpipe

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Measuring weir
Discharge measurements in spring captures

This measurement system, with a high-precision water level probe, allows the determination of the discharge in spring captures. For this purpose, the water level in the weir is measured with high accuracy and the discharge is calculated. The measurement system is compatible with the *LogTrans-field* data logger.

Measuring weir / water level probe	
Measuring principle	*Measuring weir with known discharge (effluent)-water level relationship*
Water level probe	*Capacitive relative pressure sensor*
Diameter	*Large area sensor with a 38 mm diameter*
Range	*0 - 30 cmWs ; 0 - 1 mWs or 0 - 3 mWs*
Accuracy	*Typically 0.1 % FS*
Resolution	*0.1 mm; 0.3 mm; 1 mm according to the measuring range*

Data logger LogTrans-field	
Inputs	*6 analogue inputs/ 16 Bit resolution, 2 counter inputs*
Interfaces	*MODBUS, RS 485; RS 232 for the connection of camera K1*
Interface	*USB 2.0 for parameterization – optional Bluetooth LE*
Memory	*512 MB for data and 512 MB for images*
Wireless data transfer	*Integrated 4 band GSM/GPRS modem – optional 4G I optional satellite*
Alarm notification	*Two channels with up to 6 alarm notifications*
Power supply	*Accumulator 12 V, 6.5 Ah for data logger and sensor*
Case/dimensions	*Aluminium 330 x 290 x 115 mm, incl. antenna, IP 65*
Alternative data loggers	*See pages 17 ... 18*

Measuring weir

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Precipitation measurements
with remote data transmission technology

The *precipitation measurement system*, with data logger and remote transmission, optimized for energy-saving applications, is a suitable system for continuous precipitation measurements. Due to its alarm capability, it can send an alert in case of critical events (e.g. heavy precipitation).

Precipitation sensor	
Area/ dimensions	*Area: 200 cm²; diameter: 18 cm; height: 30 cm*
Measurement principle/ resolution	*Tipping bucket rain gauge, resolution 0.1 mm and potential-free contact*
Accuracy	*2 % up to 25 mm/h and 3 % more than 25 mm/h*
Base (optional)	*For the installation of precipitation sensors at a height of 1 m incl. holder for data logger*
Heating system (optional)	*18 W / operating temperature range: - 20°C ... + 50 °C (heated)*

Data logger LogTrans 6-compact	
Input	*2 counters*
Interfaces	*MODBUS, RS 485; RS 232 for connection of camera K1*
Interface	*USB 2.0 for parameterization – optional Bluetooth*
Memory	*512 MB for values and 512 MB for pictures*
Wireless data transfer	*4 band GSM/ GPRS modem I optional: 4G I optional Satellite*
Alarm notification	*Two channels with up to 6 alarm notifications*
Interface	*USB – to be parameterized with **SENSOlog***
Power supply	*4 batteries C-sizes - Alkaline Duracell*
Dimensions	*Diameter 48 mm, length 700 mm*
Alternative data loggers	*See pages 17 ... 18*

Precipitation measurement systems

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Meteorological measuring stations
with data transmission technology

Meteorological measuring stations can be supplied as individual research stations with high-precision meteorological sensor technology up to networks or early warning systems. The meteorological measuring stations are equipped with the tried and tested data logger *LogTrans-field* and are in principle equipped with remote data transmission technology.

Meteorological sensors	
Precipitation	*Tipping bucket rain gauge – other measurement principle on request*
Measurement principle/ Dimensions/ Accuracy	*Tipping bucket rain gauge with 0,1 mm resolution and magnetic reed switch; 200 cm² Diameter: 18 cm; high: 30 cm, accuracy 2 % at 25 mm/h and 3 % up to 50 mm/h*
Heating	*Option - 18 W / : operation temperature - 20 °C… + 50 °C (heated)*
Wind velocity	*Anemometer; range 0,5...50 m/s; resolution < 0,1 m/s*
Wind direction	*Wind direction sensor; range 0...360 °C; resolution 0,4 °; accuracy: +/- 2°*
Humidity/ air temperature	*Humidity: range 0... 100 % r.H.; accuracy (MB 5... 95 % r.H. at 10...40°C) ± 2 % r.H.; plus(<10°C, >40 °C) < 0,1 %/K; response time (T 90) = 5 min Temperature: sensor element (DIN IEC 751) PT 100 1/3 DIN; range –30...+70 °C; accuracy ± 0,2 K; plus (<10 °C, > 40°C) ± 0,004 %/K; response time (T 90) = 5 min*
Pyranometer/ Measurand	*Hemispherical solar radiation; transmitted range 0…1600 W/m2; spectral range 285…3000 nm; second class pyranometer, Interface Modbus RS-485; Calibration uncertainty: < 1,8%*
4-component - net radiometer	*upward and downward directed pyranometer spectral range: 285…3000 nm; accuracy < 1,8 % upward and downward directed pyrgeometer: spectral range 4500…40.000 nm; accuracy < 7% temperature sensor PT 100*
Stand	*Stand 2 m with earth pins for ground installation; steel rope*

Data logger LogTrans-field	
Inputs	*6-18 analogue inputs/ 16 Bit resolution, 2 counter inputs; MODBUS-RTU: Option SDI-12*
Wireless data transfer	*Integrated 4 band GSM/GPRS modem – optional 4G I optional Satellite*
Alarm notification	*Two channels with up to 6 alarm notifications*
Case/dimensions	*Aluminium 330 x 290 x 115 mm, incl. antenna, IP 65*
Power supply	*Accumulator 12 V, 6.5 Ah for data logger and sensor plus optional solar power supply*
Additional technical data's	*See pages 17 ... 18*

Meteorological measuring stations

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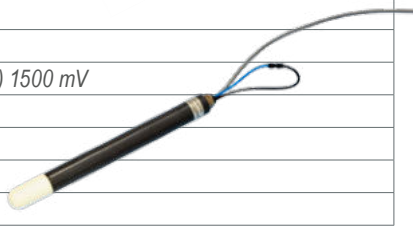
Soil moisture measuring stations
with data transmission technology

The *soil moisture measuring station* with data logger and remote transmission, optimised for low power consumption applications, is a suitable system for the continuous recording of soil moisture and capillary suction tension in the soil. The number and type of sensors are project-specific

Soil moisture sensor USMT100	
Range volumetric water content/ temperature	*VWC 0…60%; up to 100 % VWC with limited accuracy* *temperature: -40 … +80°C*
Volumetric water content (VWC)	*Accuracy up to ± 3% (VWC) in mineral soil/ factory calibration* *Soil with moderate salinity in range 0…50% VWC* *Resolution: 0,1 % VWC*
Temperatur	*Accuracy typical ± 0.2°C, max. ± 0.4°C about full range* *Resolution 0.01°C*
Interface/ power supply	*MODBUS-RTU; 5-24 VDC; 40 mA*
Probe cable length	*10 m*
Sensor size	*Approximately 18,2 cm x 3 cm x 1,2 cm*

Tensiometer Standard	
Diameter/ length	*Ø 35 mm; length ceramic 70 mm; length shaft customer specific, shaft screwed*
Range/ Air bubble point/ type of sensor	*-1000.+1000 mbar; ca. 800 mbar; relative pressure sensor*
Accuracy	*0,5 % FS*
Analogue Output	*500…2500 mV; zero point (0 mbar capillary suction tension) 1500 mV*
Power supply	*9-14 VDC; 10 mA*
Filling	*In built in position refillable*
Material	*PVC, ceramic; epoxy resin; PUR-cable; EPDM*
Probe cable	*PUR, 10 m with air pressure capillary*



Data logger LogTrans-field	
Technical data's	*See pages 17 ... 18*

Soil moisture measuring stations

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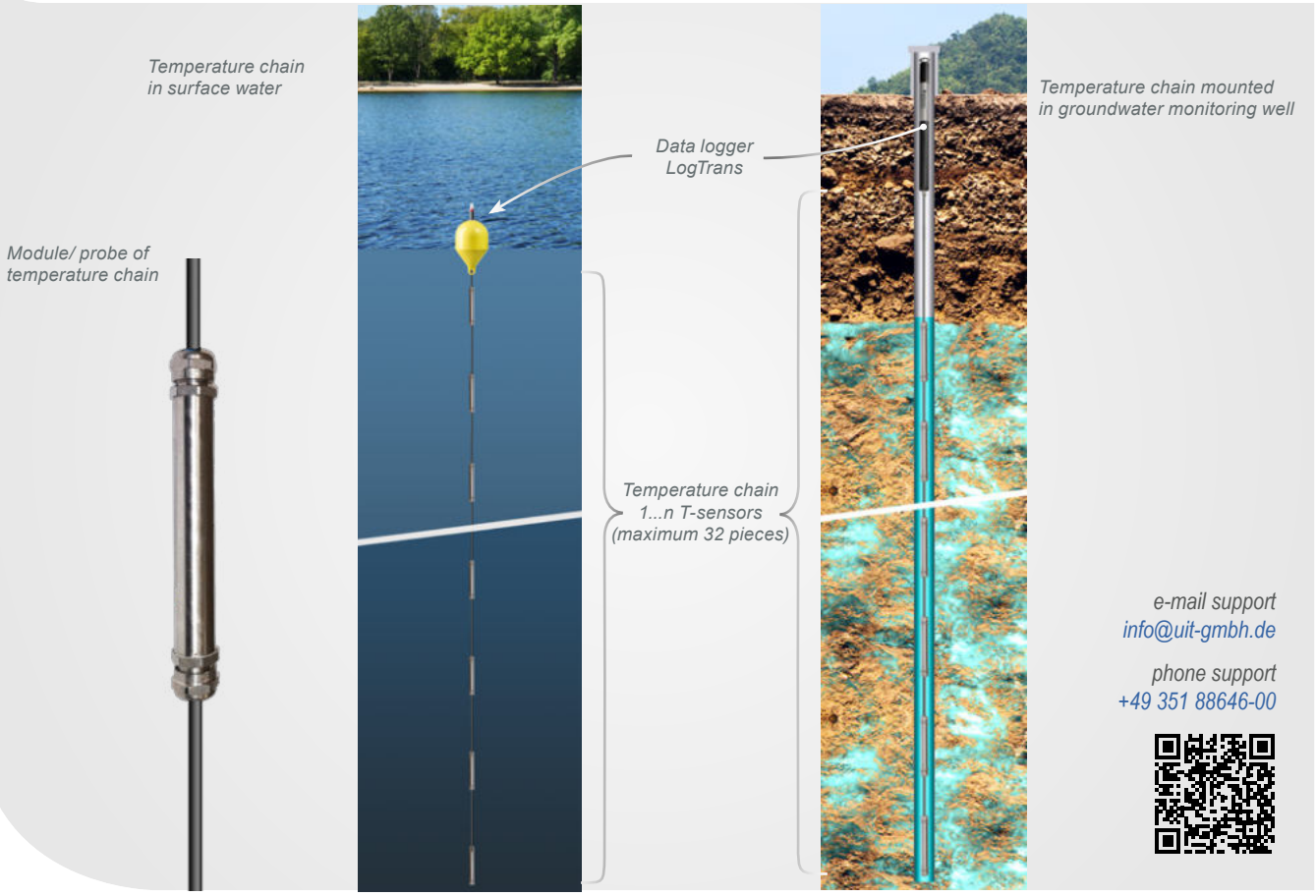
Temperaturmesskette
with data transmission technology

The robust *temperature measurement chain* is used to record temperature profiles in water bodies and boreholes. The temperature sensors are interconnected via a RS485 MODBUS and can be connected directly to the data logger *LogTrans-field*.

Temperature chain	
Temperature sensor	Range: -20 ... 50°C, Resolution: 0,04 K, typical accuracy: +/- 0,1 K
Dimensions	Ø T-probe 16 mm, 20 mm (screw fitting); total length: 140 mm
Interface	MODBUS-RTU
Max. number of probes per T-chain	32
Probe cable	Rugged PE – probe shield; diameter: 7,5 mm with swelling threads Integration of the probe cable into the temperature element with double seal
Material with medium contact	Stainless steel, NBR; PUR, PE, EPDM
Power supply	5-15 VDC, typ. 10 mA for every T-probe, When using a LogTrans, the power supply is provided by the power supply of the data logger.

Data logger LogTrans-field	
Inputs	MODBUS-RTU
Wireless data transfer	Integrated 4 band GSM/GPRS modem – optional 4G I optional Satellite
Power supply	Accumulator 12 V, 6.5 Ah for data logger and sensor plus optional solar power supply
Case/dimensions	Aluminium 330 x 290 x 115 mm, incl. antenna, IP 65
Additional technical data's or alternative data loggers	See pages 17 ... 18



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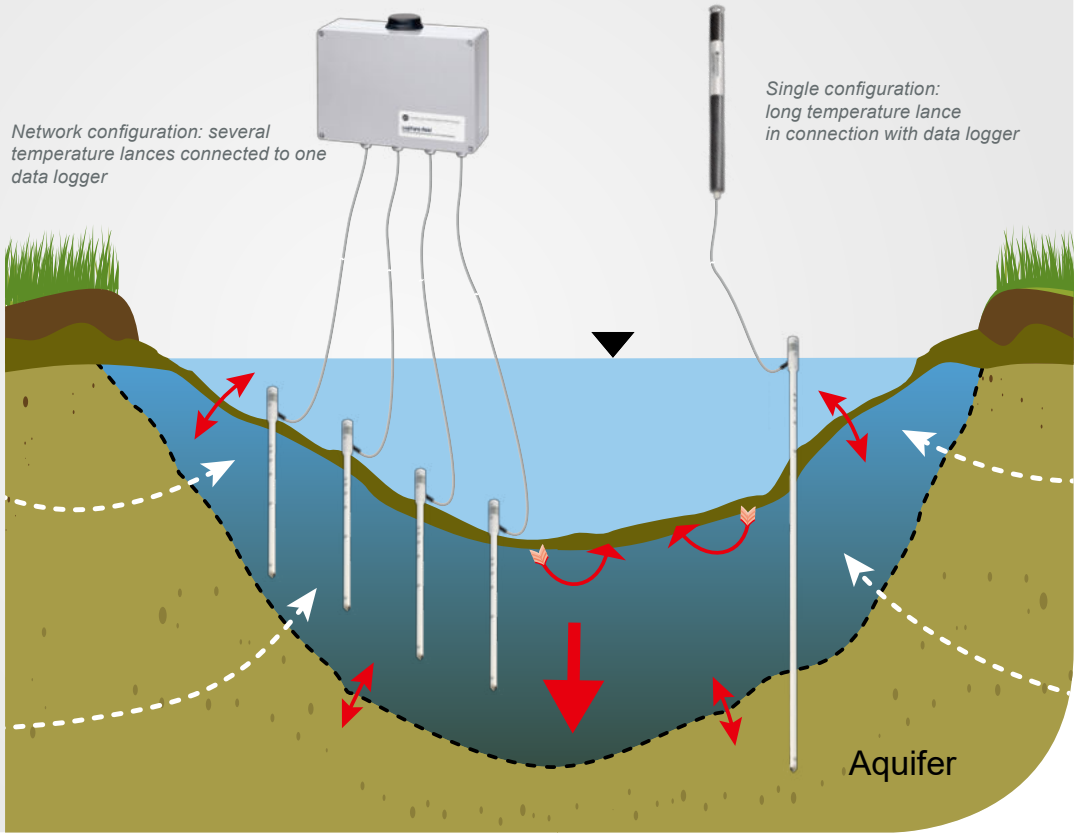
Temperature lance
with remote transmission technology

The *high-precision temperature lance* sets standards in accuracy and compactness. In particular, the temperature lance is used to monitor the interaction of groundwater and surface water. This is also referred to as the hyporheic zone.

Temperature lance	
Dimensions	*Diameter 30 mm; length: customer specific (typical 0,8m)*
Material with medium contact	*POM, stainless steel, EPDM*
Lead out of the probe cable	*Laterally or vertically at the head of the temperature lance*
Probe cable material	*PUR, PVC or FEP – see quotation*
Number of temperature sensors	*Standard 8 pieces – number of temperature sensors can be increased up to 40 pieces*
Temperature sensor	*Installed in stainless steel parts*
Typ 1	*Range: -20…+50°C; typ. accuracy +/- 0.1 °C; resolution: 0,04°C*
Typ 2	*Range: -10…+60°C; typ. accuracy +/- 0.07 °C; resolution: 0,004°C*
Typ 3	*Range: -50…+150°C; typ. accuracy +/- 0.3 °C in the range -20°C…+110°C; resolution: 0,1°C*

Data logger LogTrans-field	
Inputs	*MODBUS-RTU*
Wireless data transfer	*Integrated 4 band GSM/GPRS modem – optional 4G I optional Satellite*
Power supply	*Accumulator 12 V, 6.5 Ah for data logger and sensor plus optional solar power supply*
Case/dimensions	*Aluminium 330 x 290 x 115 mm, incl. antenna, IP 65*
Additional technical data's or alternative data loggers	*See pages 17 ... 18*



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Data loggers
with remote transmission technology

The *data loggers produced by UIT GmbH Dresden* are ideally suited for setting up measurement systems with low power consumption and remote data transmission technology. All data loggers have highly effective alarm functions and are available with various data transmission technologies.

General technical data of UIT data loggers	
Interfaces	*MODBUS, RS 485, Option: SDI 12*
Inputs	*2 counter, optional analogue inputs*
Sample rate	*1 s ... 24 h*
Memory	*512 MB for values and 512 MB for pictures*
Interface	*USB 2.0 to be parametrized with **SENSOlog***
Alarm notification	*Two channels with up to 6 alarm notifications*
Power consumption	*Sleep mode 0.08 mA, with Bluetooth 4.0; 0.12 mA, Bluetooth-communication 16 mA, measurement and/or USB connection 20 mA + power consumption of probe, wireless data transfer 200 mA*
Operating temperature range	*-25 °C ... +70 °C*

The following data logger variants are available and, in addition to the general technical data mentioned above, have the following product-specific technical data.

Data logger LogTrans 7-compact

Data logger LogTrans 7-compact	
Wireless data transfer	*GSM/ GPRS modem, 900 MHz, 1,800 MHz, GSM: 800, 850, 1,900 MHz, option 3G , option LTE or 4G NB-IoT modem*
Data security	*Option: TLS - client-server certificate*
Optional: air pressure sensor	*800 ... 1,200 mbar, installed in data logger*
Option: Bluetooth	*Bluetooth LE for wireless basic parameterization and data display only with 3G-modem or LTE-modem*
Power supply	*2 - 4 lithium batteries– 13/26Ah or 4 alkaline Baby 1.5 V (Duracell) or Li-Ion accumulators, 5.2 Ah, definition with offer*
Dimensions	*Diameter 48 mm, length 700 mm*
Protection degree	*Option 1 – with air pressure membrane: IP 65 Option 2 – without capillary: IP 68 Option 3 – without capillary, with air pressure sensor: IP 68*
External antenna	*necessary*

Data loggers
with remote transmission technology

Data logger LogTrans 7-sat-compact

Data logger LogTrans 7-sat-compact	
Wireless data transfer	Integrated Iridium modem for the Iridium satellite system with the widest possible complete worldwide coverage. Iridium Modem 1616…1626,5 MHz; No activation via SIM card, but activation via IMEI registration at the provider.
Optional: air pressure sensor	800 ... 1,200 mbar, installed in data logger
Power supply	2 - 4 lithium batteries– 13/26Ah or 4 alkaline Baby 1.5 V (Duracell) or Li-Ion accumulators, 5.2 Ah, definition with offer
Dimensions	Diameter 48 mm, length 700 mm
Protection degree	Option 1 – with air pressure membrane: IP 65 Option 2 – without capillary: IP 68 Option 3 – without capillary, with air pressure sensor: IP 68
External antenna	necessary

Data logger LogTrans –IoT-compact

Data logger LogTrans – IoT-compact	
Wireless data transfer	LoRa® or LoRaWAN® – 868 MHz
Optional: air pressure sensor	800 ... 1,200 mbar, installed in data logger
Power supply	2 - 4 lithium batteries– 13/26Ah or 4 alkaline Baby 1.5 V (Duracell) or 2 x Li-Ion accumulators, 5.2 Ah, definition with offer
Dimensions	Diameter 48 mm, length 700 mm
Protection degree	Option 1 – with air pressure membrane: IP 65 Option 2 – without capillary: IP 68 Option 3 – without capillary, with air pressure sensor: IP 68
External antenna	Option: mountable with the same protection degree
Gateways	Option: Gateways for LoRa® or LoRaWAN®

Data logger LogTrans-field

Data logger LogTrans-field	
Option: extension board	3 x 0 ... 5 VDC and 3 x 0 ... 20 mA single ended, multiple boards installable, 16 Bit resolution
Wireless data transfer	Integrated 4 band GSM/ GPRS modem Options 4G LTE/ LoRaWAN/ NB-IoT/ Iridium - Modem
Standard antenna	Roof antenna, 3 dB gain
Power supply:	
Option 1: - accumulator	12 V, 6,5 Ah for data logger and sensor useable
Option 2: - solar	Additional solar charger mounted in the aluminum case
Option 3: - power supply	220 VAC/ 12 VDC, 3 A
Sensor power supply 12 V	Power supply for sensors switched
Option: Bluetooth	Bluetooth LE for wireless basic parameterization and data display only with 4G-modem
Protection degree	IP 65
Case dimensions	Aluminium 330 x 290 x 115 mm, incl. antenna, IP 65

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innovative, web-based network centre

Wireless technologies

sigfox

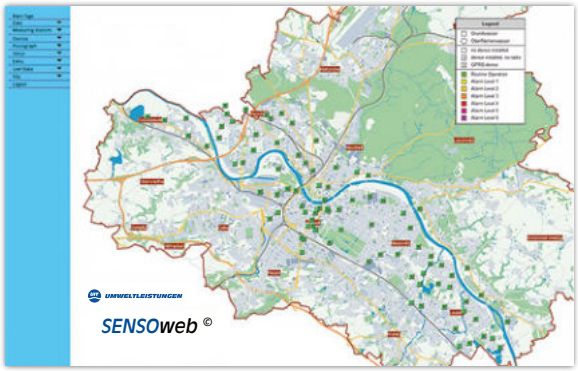
iridium

4G

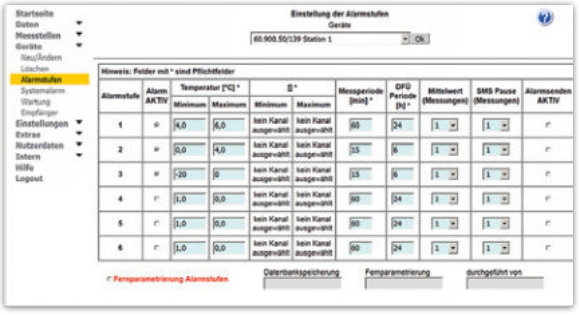
LoRa

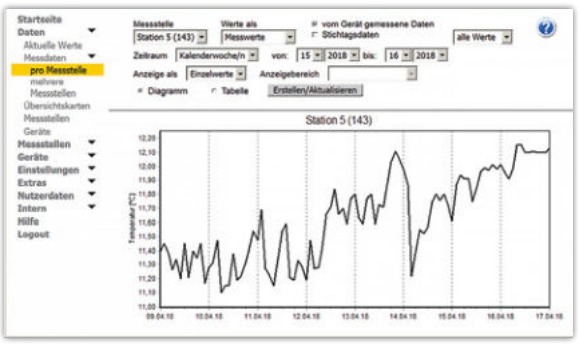
GPRS

Basic map



Submaps – alarm parameterization





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UIT-Cloud

OR

FTP- data transfer

FTP-Server
of customer

Technology pro Environment

Worldwide activities of UIT

www.uit-gmbh.de

The company belongs to General Atomics Europe Gruppe
and as such is part of the global network of General Atomics.

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Hydrological Monitoring

The data sheet also describes optional special equipment.
The concrete scope of delivery is defined in each case with the offer.

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