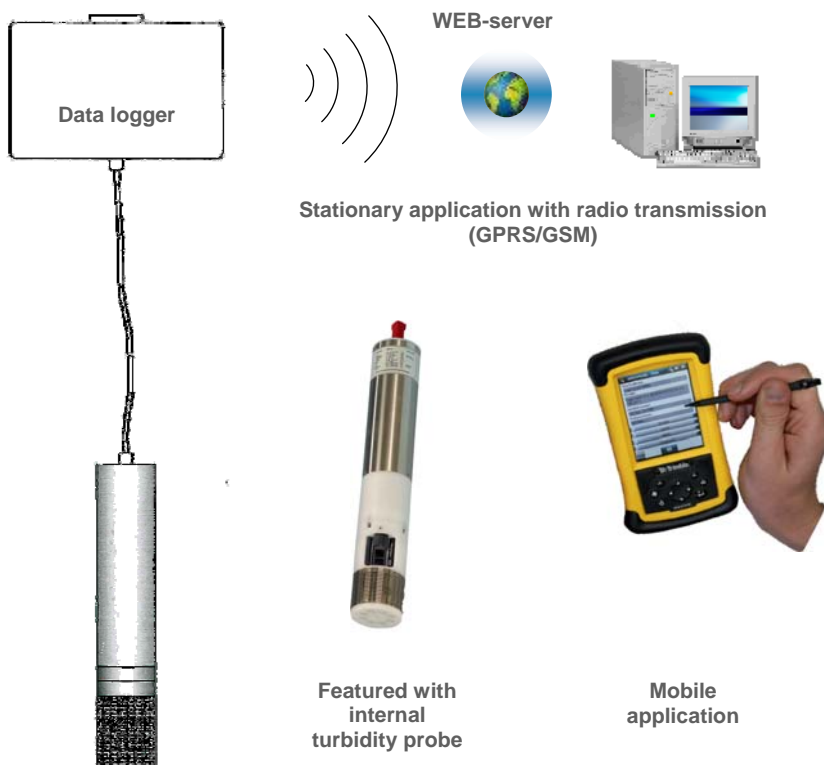


Multi Sensor Module MSM-S2 with GPRS/GSM-data transmission



Available parameters

- pH
- Redox potential
- Conductivity
- Temperature
- Dissolved oxygen
- Nitrate
- Ammonia
- Chloride
- Carbon dioxide CO₂
- Turbidity
- Chlorophyll
- Pressure



Features

- Data logger
- Integrated remote transmission (GSM/GPRS) – option
- Internal accumulator

Applications

- Stationary monitoring
 - Surface water
 - Ground water
 - Monitoring of piping networks
- Mobile application

Multi Sensor Module MSM-S2

with GPRS/GSM-data transmission

Technical data – Measuring probe and data logger	
Dimensions	Ø 89 mm, L = approx. 510 mm
Material with media contact	Casing: Stainless steel 1.4301, POM; O-rings: NBR, sensor materials
Cable	PUR as well as PE cable
Operating conditions	Temperature: 0 ... 40°C; pH: 2 ... 12 (continuous operation) Data logger: temperature range -25°C ... 50°C
Installed load: data logger + sensors	Typ. 12 V / 6.5 Ah
Dimensions of the data logger	330 mm x 230 mm x 115 mm
Material of the casing (data logger)	Aluminum spray coating, degree of protection: IP 65
Memory depth	512 MB / approx. 200,000 data sets
Interface	USB
Stand by current	< 0,2 mA
Typical power consumption during measurement	Typ. 200 mA, duration of one measurement: approx. 5 seconds The power consumption depends on the sensor assembly
Operating software	SENSOlog , executable under Windows XP, 2000 and VISTA
Sensors	
Pressure sensor (Absolute pressure sensor)	Measuring range: 800 – 6,100 mbar or 800 – 2,100 mbar further measuring ranges on request, Linearity: typ. 0.2% FS
Temperature sensor	Measuring range: 0 ... 50° C, resolution: 0.1°C, accuracy: 0.5°C
Conductivity sensor	Type 1: graphite electrode (two-electrode measurement) Type 2: graphite electrode (four-electrode measurement) Measuring range 0 ... 20 mS/cm type 1; 0 ... 200 mS/cm type 2
pH	Measuring range 1 ... 14, resolution Δ pH = 0.02
Redox potential	Measuring range – 2,000 ... + 2,000 mV, resolution 1 mV
Chloride [Cl ⁻]	pCl ⁻ = 0 ... 5 (0.35 ... 35,000 mg/l), resolution Δ pCl ⁻ = 0.02
Nitrate [NO ₃ ⁻]	pNO ₃ ⁻ = 0 ... 5 (0.62 ... 62,000 mg/l), resolution Δ pNO ₃ ⁻ = 0.02
Ammonia [NH ₄ ⁺]	pNH ₄ ⁺ = 0 ... 5 (0.18 ... 18,000 mg/l), resolution Δ pNH ₄ ⁺ = 0.02
Carbon dioxide [CO ₂]	Measuring range 2 ... 1.000 mg/l, resolution Δ pCO ₂ = 0,02
Dissolved oxygen [O ₂]	0 ... 20 mg/l O ₂ , resolution 0.05 mg/l O ₂
Turbidity	0 ... 500 NTU/FTU
Chlorophyll ,a'	0 ... 200 µg/l, resolution 0.02 µg/l
Radio technology	
Integrated radio modem	Optionally integrated 4 band GSM/GPRS modem
Standard antenna	1 dB gain
Options and services	
Customer specific sensor cables with hang in device	
Internet platform SENSOweb or GSM reception software SENSOgsm	
Data logger: 4" and adapter for 4" to 6" observation wells on request	
PDA suitable for mobile outdoor applications with SENSOmobile software	

Modifications contributing to technical progress are subject to change without notice!



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