

Measurement system SENSODive plus UV probe including data logger and various data transmission modes



- Water quality monitoring system
- Combination of classical sensors (pH, Redox, cond, LDO, ...) with UV-spectrometer (COD, BOD, nitrate)
- Applicable for river and surface water monitoring
- Applicable for waste water monitoring
- Use of industrial standard sensors

Types of data communication

- Version 1: GPRS
- Version 2: Ethernet
- Version 3: MODBUS – RTU – Option

Technical data – Multi Sensor Module SENSODive

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|-----------------------------|---|
| Dimension | Probe: OD 48 mm; length: 600 mm; Data logger: OD 48 mm; length: 395 mm |
| Material with media contact | Stainless steel, POM; PUR, EPDM, NBR, PE, sensor materials |
| Probe cable | Sheath material PUR; cable with air pressure capillary |

Sensors

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|--------------------------|---|
| Water level | 0-10 m or 0-50 m; other ranges on request |
| Temperature sensor | Range: 0 ... 40°C; resolution: 0.04°C; accuracy: 0.1°C |
| Conductivity sensor | Type 1: Graphite electrode (2-electrode-technology) Measuring range 0 ... 20 mS/cm; Type 2: Graphite electrode (4-electrode-technology) Measuring range 0 ... 500 mS/cm with automatically range switching |
| pH | Range 1 ... 14; resolution Δ pH = 0.02 |
| Redox potential (ORP) | Range -2000 ... +2000 mV; resolution 1 mV |
| Combi-sensor pH/ORP | Range 1 ... 14; range -2000 ... +2000 mV |
| Oxygen [O ₂] | 0 ... 20 mg/l O ₂ ; resolution 0.02 mg/l O ₂ |
| Ion selective Sensors | Chloride, nitrate und ammonia available – technical data on request |
| Additional Parameters: | On request |

Detailed technical data of sensors, see specific data sheets

Technical data UV probe – OPUS UV

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|---|---|
| UV spectral sensor for reliable readings for various parameters like NO ₃ , NO ₂ , CODeq, BODeq, TOCeq, TSSeq – ranges on request | |
| Light source | Xenon flash lamp |
| Spectrometer | 200 to 360 nm, 256 channels, 0,8 nm/pixel |
| Measurement principle | Attenuation, spectral analysis |
| Dimensions | Diameter 48 mm, length 470 mm |
| Optical Path lengths: | 0,3; 1; 2; 5; 10; 50 mm |



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| Technical data logger | |
|--|---|
| Data logger/ memory | Internal data logger incl. 512 MB memory (up to 1 million data sets) |
| Sampling time | 2 minute to 24 hours; automatic change of sampling time in case of alarm |
| Date transmission modes | |
| Version 1 | Wireless data transfer – 4 band GPRS/GSM modem |
| Version 2 | LAN/ Ethernet |
| Version 3 | MODBUS-RTU |
| Power supply | Variant 1: 12V/ 6,5 Ah plus optional solar charger Variant 2: 220 VAC/ 12VDC |
| Power consumption | On request – depending of using profile and measurement parameters |
| Interface/configuration | USB – software SENSOlog |
| Configuration | |
| Applicable temperature | 0...50 °C; in water; extended temperature range on request |
| Specific configurations | Subject to customer`s request for proposal |
| Modifications contributing to technical progress are subject to change without notice! | |

