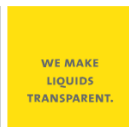




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Multi Sensor Head - MSH

The **Multi Sensor Head (MSH)** is a modular sonde that allows the integration of up to four sensors or electro-des in one submersible probe head. As one possible configuration, conductivity, temperature, redox, pH and oxygen can be determined with one MSH.

The integrated electronics allow the direct digitalization of analogue sensors. The MSH can alternatively be integrated into the BlueBox system via CAN bus or into a PLC via Modbus. The necessary protocol and PC configuration program are freely available.



Application Areas:



Drinking Water

- Quality Control
- Alarm Systems



Wastewater

- Effluent Monitoring
- Trend Analysis



Process Measurement & Control Technology

- Process Monitoring in Industrial Facilities
- Control of Process Water Treatment
- Process Optimization



Environmental Monitoring

- River Water
- Surface Water
- Well & bore hole

Parameters:

- Ammonium
- Nitrate
- pH
- Redox / ORP
- Conductivity
- Temperature
- Salinity
- TDS
- Dissolved Oxygen

Further parameters on request

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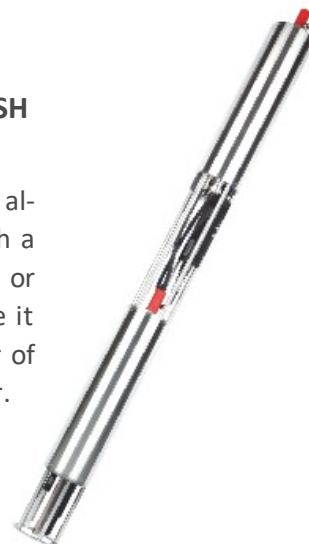
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Technical Data

Power supply:	10-36 V DC
Power consumption (typical):	4W
Material:	SS 1,4404 / Titanium (optional)
Dimensions:	Length 465mm; Ø86mm
Weight:	approx. 4kg
IP protection class:	IP 68
Pressure range:	0-6 Bar
Operation temperature range:	-5°C to +45 °C
Interfaces:	CAN bus / Modbus (RTU)

Expandable with UV/Vis or MSH

The expandable design of the MSH allows the extension of the sonde with a BlueScan Plus UV/Vis Spectrometer or an additional MSH. With this feature it is possible to increase the number of measurable parameters even further.



Art. No.	Parameter	Measuring Principle	Measurement range
461 MSH0-LORp	Conductivity	Inductive conductivity	30 – 3000 µS/cm 50 - 120000 µS/cm
	Temperature	NTC / PT1000	0 – 60 °C
	Salinity	Calculation [UNESCO Formula]	0.02 – 1.6 PSU; ‰ 0.2 - 94 PSU; ‰
	TDS	Calculation	20 – 2010 mg/l 335 - 80400 mg/l
	pH	pH electrode	0 – 14
461 MSH0-NOp	Redox / ORP	Redox / ORP electrode	-2000 – +2000 mV
	Dissolved Oxygen	Galvanic	0 – 20 mg/l
	Ammonium	Ion-selective electrode	0.2 – 18.000 mg/l
	pH	pH electrode	0 – 14
	Dissolved Oxygen	Galvanic	0 – 20 mg/l
461 MSH0-pNHO	Temperature	NTC / PT1000	0 – 60 °C
	Ammonium	Ion-selective electrode	0.2 – 18.000 mg/l
		Ion-selective electrode	0.4 – 60.000 mg/l
		pH electrode	0 – 14
		NTC / PT1000	0 – 60 °C

✦ Further parameter configurations request

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