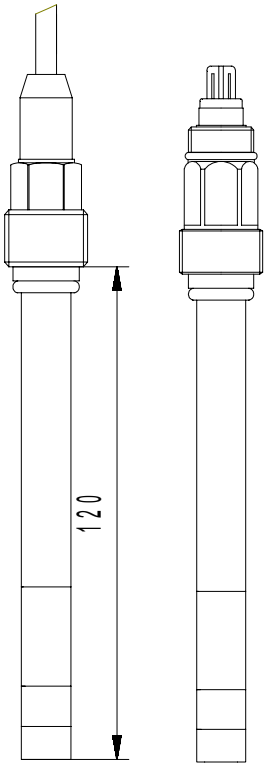
DISSOLVED OXYGEN PROBE MF 41

06/04



MF 41 K/PG MF 41 SMEK

Dimensions in mm

This amperometric type oxygen probe is ideal for direct control of dissolved oxygen in water, e.g. drainwater, surface water, fish farming or laboratory and engineering plants. The oxygen probe MF 41 features high long-term stability, low maintenance, and identical dimensions to pH electrodes (∅ 12 mm).

High Operating Reliability
The special design of the electrode system and the membrane with a head multi-layer membrane guarantee the highest degree of operating reliability.

Easy Maintenance, Mounting and Fast Air Calibration
The special sealing concept of the sensor, the rugged multi-layer membrane and the extended operation secures maintenance free operation of the sensor over several months period. The membrane head is completely changeable and the packing unit of the electrolyte volume is efficient for one sensor head. Due to the zero current free technology of the electrode system, a simple one-point calibration in the ambient air is all that is required for calibration. The MF 41 is equipped with a PG 13.5 threaded sensor body for easy maintenance, mounting and process integration i.e. in bevel flow-through housings.

Incorporated Temperature Sensor
The sensor MF 41 incorporates as standard a Pt 1000 temperature sensor for automatic temperature compensation and temperature measurement in connection with the monitoring instrumentation.

Specifications

Material	ABS, stainless steel, PSU, silicon
Dimensions	∅ 12 mm; immersion length 120 mm
Measuring Range	0 ... 20 mg/l (15 °C); 0 ... 200 % air saturation
Resolution	< 0.1 mg/l
Response Time	t_{90} < 30 s at 25 °C
Flow Dependency	< 6 % at 25 °C
Operating Temperature	-5 ... 45 °C
Pressure	max. 3 bar above atmospheric
Temperature Sensor	incorporated platinum resistor Pt 1000 for automatic temperature compensation and temperature measurement in the range 0 ... 40 °C
Electrical Connection	MF 41 K/PG: fixed cable 5 m without connector, sensor stem equipped with hex nut PG 13.5; cable expandable up to max. 20 m cable wiring MF 41: shield: anode white: cathode grey: Pt 1000 yellow: Pt 1000 MF 41 SMEK: PG 13.5 threaded multi-pin SixPlug plug head; dismountable connection cable K 39; max. 20 m cable wiring K 39: shield: anode white: cathode grey/green: Pt 1000 brown/yellow: Pt 1000
Process Connection	sensor shaft equipped with hex nut PG 13.5 or PG 13.5 threaded plug head for direct mounting in housings; installation vertically or laterally up to 30° from vertical

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