

MEASURING INSTRUMENTS

Con 6 *m*

Oxygen measuring instrument with optical sensor



Measuring device for the determination of the oxygen content in the water-steam cycle

The measuring transducer **Con 6 m** has one channel for continuous monitoring of the oxygen content.

The oxygen measurement is carried out by means of an optical sensor with high resolution – even in low oxygen concentrations. The slope calibration is performed without calibration gases in the air and in just a few steps due to the simple operability of the **Con 6 m** on site. The zero value can easily be adjusted by means of a product calibration with a reference device alternatively to a calibration with Nitrogen 5.0.

Furthermore, the measuring transducer **Con 6 m** offers the option of integrating a flow measurement for monitoring the sample flow to get a reliable sample analysis within the framework of the VGB-guidelines. For a flexible use, the measuring transducer is equipped with a broad-range mains adapter at the factory (4 wire principle).

Con 6 *m*

TECHNICAL FEATURES

- Simultaneous measurement of oxygen content and temperature while monitoring the sample flow
- High resolution in the trace range
- No cross-sensitivity to CO₂
- No waiting time for polarisation
- Analog output with HART protocol
- Freely usable digital contacts (washing contact, alarm, 2x limit value)



TECHNICAL DATA

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Device	Con 6 <i>m</i> O ₂ -LDO
Display	graphic display, backlit by means of colour-change status display
Operation	menu-led entry with 7 operating keys
Ambient temperature	0 ... +55 °C transport and storage temperature -30 ... +70 °C relative humidity 10 ... 95 % non-condensing
Operating parameter medium	0 ... +60 °C
O₂-sensor	Oxygen sensor SE 740
Measuring range	4 ppb ... 25 ppm
Response time	<30 sec.
Permissible pressure range	-1 ... 12 bar
Sample flow	displayed in l/h when flowmeter is connected at digital input
Data interface	HART
Relay outputs	four relays: 2x limit values, one alarm contact, one washing contact
Analogue outputs	0(4)...20 mA, galvanically isolated
Power supply	80 V ... 230 VAC; ≤ 10 W; 45 ... 65 Hz 24 V ... 60 VDC; 10 W
Protection system	IP 67 and NEMA 4x
Weight	1.2 kg
Dimensions	148 x 148 x 117 mm (HxWxD)

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Subject to technical alterations.

Sampling & Analysing Systems

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