

MEASURING INSTRUMENTS

Con 6 *m*

pH measuring instrument



Measuring device for the pH-value determination in the water-steam cycle

The measuring transducer **Con 6 m** has one channel for continuous monitoring of the pH-value. The continuous pH-value determination by means of a glass electrode has the advantage that it functions independently of the chemical conditions (such as Na₃PO₄ dosage in boiler feed water) compared with the modern pH-value determination. pH-glass electrodes are manufacturer-independent wear and tear components and require regular maintenance and calibration. The calibration by means of pH buffer solutions can be carried out in just a few steps due to the simple operability of the **Con 6 m** on site.

Furthermore, the measuring transducer **Con 6 m** offers the option of integrating a flow measurement for monitoring the sample flow within the framework of the representative and VGB-compliant sample analysis. For a flexible use, the measuring transducer could be equipped with a broad-range mains adapter at the factory (4 wire principle). Alternatively, there is also a 2-wire-version available where separate auxiliary voltage is not required.

Con 6 *m*

TECHNICAL FEATURES

- Simultaneous measuring of pH-value, temperature and monitoring of sample flow
- User selectable linear and non-linear temperature compensation for various contaminations of high-purity water
- Analogue output with HART protocol
- Freely usable digital contacts in the 4-wire-version (washing contact, alarm, 2x limit value)



TECHNICAL DATA

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Device	Con 6 <i>m</i> pH
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
pH electrode	glass electrode SE558 incl. cable; option: Memosens
Measuring range	0 – 14 pH
Accuracy	± 0.1 pH
Sample quantity	display in l/h with digital flow sensor
Data interface	RS 485, HART
Alarm outputs	four relays as washing contact, alarm, 2x limit value (4-wire version)
Analogue outputs	0(4)...20 mA, galvanically isolated
Power supply	2-wire without auxiliary voltage 4-wire 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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