

## 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 Na<sub>3</sub>PO<sub>4</sub> 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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<b>Device</b>	Con 6 <i>m</i> pH
<b>Display</b>	graphic display, backlit by means of colour-change status display
<b>Operation</b>	menu-led entry with 7 operating keys
<b>Ambient temperature</b>	0 ... +55 °C transport and storage temperature -30 ... +70 °C relative humidity 10 ... 95 % non-condensing
<b>Operating parameter medium</b>	0 ... +60 °C
<b>pH electrode</b>	glass electrode SE558 incl.cable
<b>Measuring range</b>	0 – 14 pH
<b>Accuracy</b>	± 0.1 pH
<b>Sample quantity</b>	display in l/h with digital flow sensor
<b>Data interface</b>	RS 485, HART
<b>Alarm outputs</b>	four relays as washing contact, alarm, 2x limit value (4-wire version)
<b>Analogue outputs</b>	0(4)...20 mA, galvanically isolated
<b>Power supply</b>	2-wire without auxiliary voltage 4-wire 80 V ... 230 VAC; ≤ 10 W; 45 ... 65 Hz 24 V ... 60 VDC; 10 W
<b>Protection system</b>	IP 67 and NEMA 4x
<b>Weight</b>	1,2 kg
<b>Dimensions</b>	148 x 148 x 117 mm (HxWxD)

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Subject to technical alterations.

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