

## MEASURING INSTRUMENTS

# CatCon 6 *delta*



### Measuring device for differential conductivity and pH-value determination

The analyser consists of the measuring transducer **Con 6 m** and the intelligent cation filter **CatControl 6**. It is used for continuous conductivity measurement before and after a strongly acidic cation exchanger.

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 can 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. The standardly integrated ventilation of the **CatControl 6** ensures a bubble-free sample flow even in the start-up phase.

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The calculation of the pH-value is effected through the determination of differential conductivity in accordance with the VGB standard and provides a low-maintenance and reliable alternative in contrast to the conventional determination of the pH-value by means of a glass electrode.

Necessary preconditions for the validity of the pH-value calculation:

- use of just one alkalisating medium
- main contamination of NaCl
- pH-values > 8
- low phosphate concentration (< 0,5 mg/l)

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### TECHNICAL FEATURES

- Calculation of pH-value in the range of pH 7.5 to 10.5
- Simultaneous measuring of both conductivities, temperature and monitoring of sample flow
- User selectable linear and non-linear temperature compensation for various contaminations of high-purity water
- Two analogue outputs 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>	<b>CatCon 6 <i>delta</i></b>
<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>Conductivity electrode</b>	2x LS 06 with fixed cable
<b>Measuring range</b>	2x conductivity 0.001 ... 1,000 µS/cm calculation of the pH-value of 7.5 – 10.5
<b>Accuracy</b>	<1% of the measuring value + 0.01 µS/cm
<b>Cation filter</b>	1.5 l exchanger resin with colour indicator and integrated flow sensor
<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>	one or two 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>	1000 x 300 x 117 mm (HxWxD)

## Dr. Thiedig

Subject to technical alterations.

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