



**SKIDS DE
CONDICIONAMENTO
DE AMOSTRA**



WWW.USE.COM.BR

Conductivity meter

Type: con 2001 cond

Transducer for conductivity
measurements in water-
steam circuit



Description

The transducers of the con series are designed for the special requirements existing for industrial measuring instruments used for quality assurance purposes in the water-steam circuit of power plants.

The transducer con 2001 cond is used for measuring conductivity. The experience gained over many years by Dr. Leye Analysen- und Anlagentechnik GmbH in the field of power plant metrology has been used for developing instruments ensuring optimum adaptation of measuring value processing to the different media involved and facilitating operation.

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Features and peculiarities:

- Measuring ranges: 0 ... 2 ... 20 ... 200 $\mu\text{S}/\text{cm}$
2 ... 20 ... 200 $\mu\text{S}/\text{cm}$
can be free chosen between: linear 2,0 ... 8,0 %/K
nonlinear for ultra-high purity water
NaCl
HCl
NH₃
Morpholin
NaOH
switched off
- Temperature compensation: - linearly adjustable between 0,0 ... 8,0 % x K⁻¹
- non-linear
- Composition of media is taken into account in temperature compensation of conductances
- Menu-assisted operation via five keys with plain text display
- Two password-protected operator control levels
- Two-line backlit display for indicating conductivity, temperature and volumetric flow rate (the latter can be deactivated)
- All measured values displayed with measurement units
- 3 relay outputs for lack of water, temperature limit value and measuring value description
- Analogue output can be parameterised for desired measuring range between 0/4 ... 20 mA
- Bilinear characteristic 4 ... 12 ... 20 mA
- RS 485 as option
- PI controller as option

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Technical data

<i>Mains voltage:</i>	230 V +6%/-10%, 50/60 Hz
<i>Power consumption:</i>	10 VA
<i>Internal thermal link:</i>	Yes
<i>Type of protection:</i>	IP 65
<i>Display:</i>	LCD-display, 2 lines, 2x16 characters
<i>Current output:</i>	0(4)-20 mA metallically separated max. load 500 Ω
<i>Interface:</i>	RS485, baud rate 9600, data format 8 bits, 1 start and 1 stop bit, no parity, cable length 1200 m max.
<i>Connections:</i>	Clamp-type terminals for cables up to 1.5 mm ² max.
<i>Dimensions:</i>	W x H x D 165 x 160 x 800 mm
<i>Weight:</i>	1 kg
<i>Permissible operating temperature:</i>	0 to +50 °C
<i>Permissible storage temperature:</i>	-20 to +65 °C
<i>Permissible air humidity %:</i>	max. 90 % at 40 °C (non-condensing)
<i>Measuring ranges:</i>	0 – 20.00 M Ω /cm 0 – 2.000 μ S/cm 0 – 20.00 μ S/cm 0 – 200.0 μ S/cm 0 – 2000 μ S/cm 0 – 20.00 mS/cm 0 – 200.0 mS/cm
<i>Recommended cell constants:</i>	0 – 20.00 M Ω /cm C = 0.05 0 – 2.000 μ S/cm C = 0.05 0 – 20.00 μ S/cm C = 0.05 0 – 200.0 μ S/cm C = 0.05 0 – 2.000 mS/cm C = 0.2 0 – 20.00 mS/cm C = 1 0 – 200.0 mS/cm C = 10
<i>Electr. safety:</i>	IEC 1010; IEC 664
<i>Marking:</i>	CE-marking