Sensors for Conductivity Measurement

Chem Energy



SE 604 Conductivity Sensor

Robust 2-electrode sensor, for precise and reliable measurement of low and very low conductivities, particularly in ultrapure water

Facts

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- Large measuring range

 Easy to clean thanks to detachable outer electrode

- Calibration Certificate

from 1 nS/cm to 1,000 µS/cm

- Integrated temperature detector

- High level of process safety due to

- Independent of installation conditions

durable materials and robust design

Particularly suitable for monitoring

ultrapure water in power plants

- Suitable PortaSim simulators

- Coaxially arranged electrodes

Robust, coaxially arranged electrodes made of stainless steel. Large measuring range from ultrapure water to 1000 µS/cm with only one sensor model (cell constant). Integrated temperature detector for exact temperature compensation. Easy to clean thanks to replaceable outer electrode. Reliable and easy checking of the measurement using PortaSim simulators.

Applications

Boiler feed water, feed water, boiler water, cooling water, water vapor cycle, pure water, condenser monitoring

Specifications

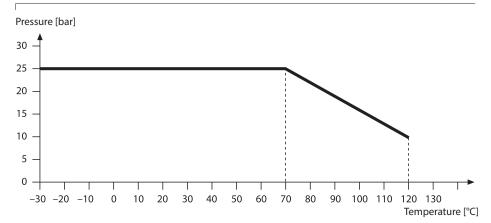
Cell constant: Measuring range: Material:

Temperature detector: Temperature:

Pressure:

Process adaptation: Sensor cap: 0.029/cm 0.001 ... 1000 μ S/cm Cell and electrodes: 1.4571 stainless steel; insulator: PVDF; gaskets: FKM (Viton) Pt 1000 Class A, T₉₀ < 2 min Medium: -30 ... +120 °C; Environment: -25 ... +80 °C Max. 25 bar (-30 ... +70 °C) Max. 10 bar (120 °C) G 1" thread 7-pin

Pressure/Temperature Diagram



Fittings

Knick >

Product Range				Order No.
SE 604 conductivity sensor	G 1"			SE 604
Accessories				Order No.
Measuring cable with plug	Sensor connectior	n: 7-pin socket	1.5 m	ZU 0743
	Device connectior	n: ferrules	3 m	ZU 0645
	Temperature:	-20 +80 °C	5 m	ZU 0569
			10 m	ZU 0570
			15 m	ZU 0589
			20 m	ZU 0590
			30 m	ZU 0660
5-hole flange				ZU 0278
Conductivity standard	KCI 300 ml	15 μS/cm ±1%		ZU 0350
	KCI 500 ml	147 μS/cm ± 1 %		ZU 0702
Calibration Certificate				ZU 0320
Conductivity simulator	PortaSim Cond A*	⁹ 0.055 μS/cm	25 °C	ZU 0308
(cell constant 0.029/cm (Details from page 86)	PortaSim Cond B*	⁰ 5 μS/cm	100 °C	ZU 0309

*) Conductivity simulator; checking the meter and cable by simulating the sensor. High-precision comparison resistors, traced to NIST standard. Used for measurement to USP <645>. Check by simply replacing the sensor by the simulator

Dimension drawing

