Sensors for Conductivity Measurement

Pharm

Food



SE 620 Conductivity Sensor

Pharma-compliant 2-electrode sensor in hygienic design

Conductivity sensor in pharmaceutical design with coaxial electrodes and integrated temperature detector. Low surface roughness of < 0.8 µm. The materials are physiologically harmless and meet FDA requirements. Steam-sterilizable. Reliable and easy checking of the measurement according to USP <645> using PortaSim simulator.

Applications

Pure and ultrapure water, water for injection (WFI), food, ion exchangers, reverse osmosis plants, also chip manufacturing

Facts

- Low surface roughness
- Steam-sterilizable
- CIP-capable
- Integrated temperature detector
- Measuring range 0.05 to 50 μS/cm
- Coaxially arranged electrodes
- Independent of installation conditions
- Insulator and sealing materials
 FDA-listed
- VP screw cap
- PortaSim simulator with VP plug
- Incl. Inspection Certificate 3.1

Specifications

Cell constant: 0.01/cm
Measuring range: 0.05 ... 50 μS/cm

Material: Cell and electrodes: stainless steel 1.4435, electropolished;

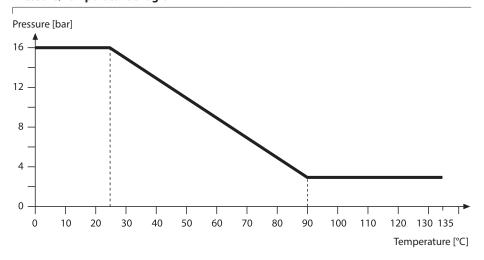
Insulator and O-rings (plastics), FDA-listed

Roughness: $< 0.8 \ \mu m$ Temperature detector: Pt 1000

Temperature: 0 ... 135 °C (steam-sterilizable) Pressure: 16 bar at 25 °C, 9 bar at 60 °C

Process connection: Clamp DN 25 Sensor cap: VP (VarioPin)

Pressure/Temperature Diagram



Product Range					Order No.
SE 620 conductivity sensor	Clamp	DN 25			SE 620
Accessories					Order No.
VP6-ST cable				3 m	ZU 0313
				5 m	ZU 0314
				10 m	ZU 0315
				15 m	ZU 0584
				20 m	ZU 0589
Conductivity standard	KCI	300 ml	15 μS/cm ± 1 %		ZU 0350
	KCI	500 ml	147 μ S/cm \pm 1 %		ZU 0702
Calibration Certificate					ZU 0320
Conductivity simulator (cell constant 0.01/cm (Details from page 98)	PortaSim Cond C*) 1.3 μS/cm		1.3 μS/cm	25 °C	ZU 0308

^{*)} 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

For up-to-date information, please visit www.knick.de

Dimension Drawing

