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 0.001 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
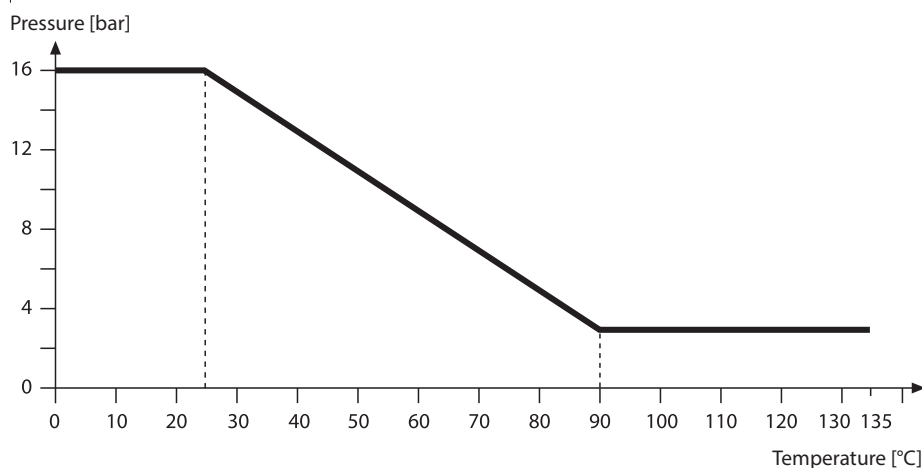– Incl. Inspection Certificate 3.1

Specifications

Cell constant:	0.01/cm
Measuring range:	0.001 ... 50 μS/cm
Material:	Cell and electrodes: stainless steel 1.4435, electropolished; Insulator and O-rings (plastics), FDA-listed
Roughness:	< 0.8 μm
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

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

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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	KCl 300 ml 15 µS/cm ± 1 %		**ZU 0350**
	KCl 500 ml 147 µS/cm ± 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	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

Dimension Drawing

Clamp DN 25

VP screw cap

Ø 50

Ø 31

Ø 22

60   56   28

144

All dimensions in mm