

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 $< 0.8 \mu\text{m}$. 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

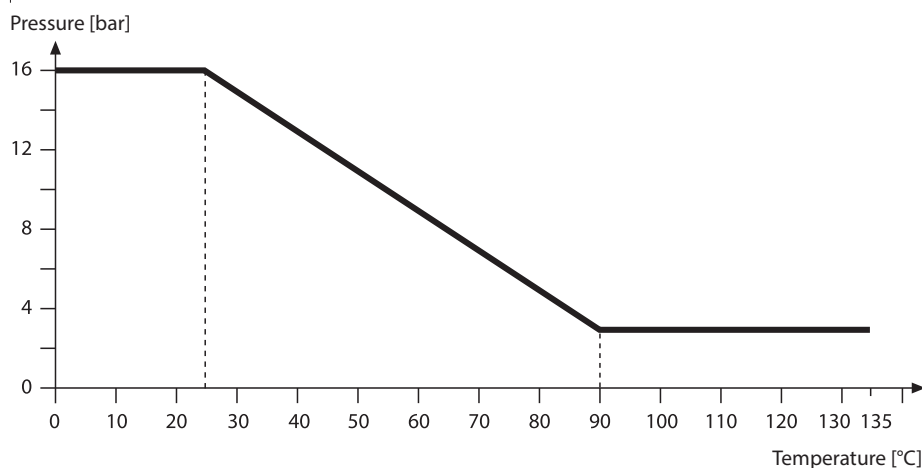
Facts

- Low surface roughness
- Steam-sterilizable
- CIP-capable
- Integrated temperature detector
- Measuring range 0.001 to 50 $\mu\text{S}/\text{cm}$
- 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 $\mu\text{S}/\text{cm}$
Material:	Cell and electrodes: stainless steel 1.4435, electropolished; Insulator and O-rings (plastics), FDA-listed
Roughness:	$< 0.8 \mu\text{m}$
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



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

Isolation Amplifiers
Transmitters

Indicators

Process Analytics

Portable Meters

Laboratory Meters

Sensors

Fittings

Knick 

Product Range

SE 620 conductivity sensor

Clamp DN 25

Order No.

SE 620

Accessories

VP6-ST cable

3 m
5 m
10 m
15 m
20 m

Order No.

ZU 0313
ZU 0314
ZU 0315
ZU 0584
ZU 0589

Conductivity standard

KCl 300 ml 15 μ S/cm $\pm$ 1 %
KCl 500 ml 147 μ S/cm $\pm$ 1 %

ZU 0350
ZU 0702

Calibration Certificate

ZU 0320

Conductivity simulator
(cell constant 0.01/cm
(Details from page 98)

PortaSim Cond C*) 1.3 μ S/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

