

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.

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

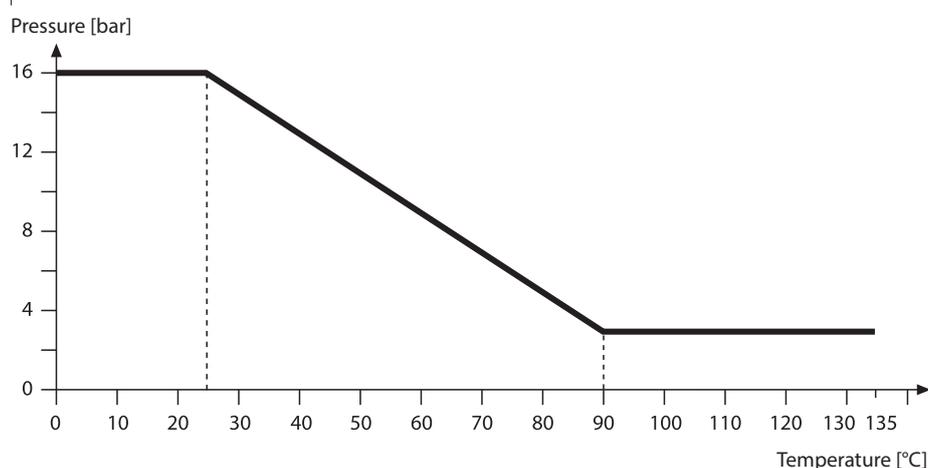
Applications

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

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)

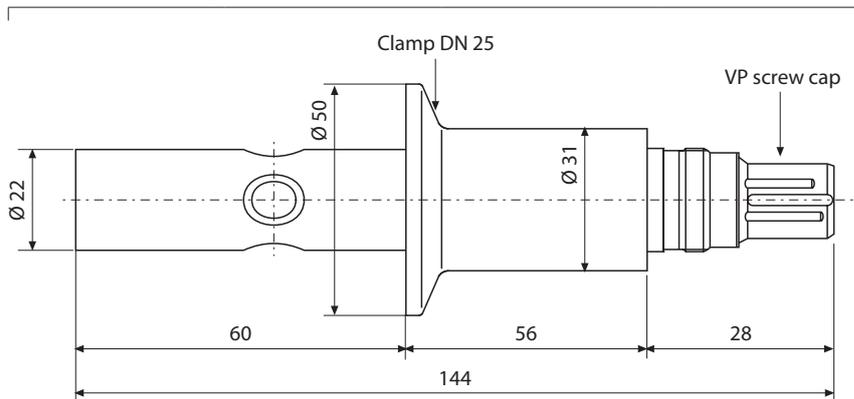
Pressure/Temperature Diagram



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

^{*)} 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



All dimensions in mm