



## SE 604 Conductivity Sensor

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

Robust, coaxially arranged electrodes made of stainless steel. Large measuring range from ultrapure water to 1000  $\mu\text{S}/\text{cm}$  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 point of measurement using PortaSim simulators.

### Applications

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

### Facts

- large measuring range from 1 nS/cm to 1000  $\mu\text{S}/\text{cm}$
- coaxially arranged electrodes
- independent of installation conditions
- integrated temperature detector
- high level of process safety due to durable materials and robust design
- easy to clean thanks to detachable outer electrode
- particularly suitable for monitoring ultrapure water in power plants
- Calibration Certificate
- suitable PortaSim simulators

### Specifications

Cell constant:	0.029/cm
Range:	0.001 ... 1000 $\mu\text{S}/\text{cm}$
Material:	Cell and electrodes: stainless steel 1.4571 Insulator: PVDF Gaskets: FKM (Viton)
Temperature detector:	Pt 1000 Class A, $T_{90} < 2 \text{ min}$
Temperature:	Process: $-30 \dots +120 \text{ }^\circ\text{C}$ Environment: $-25 \dots +80 \text{ }^\circ\text{C}$
Pressure:	max. 25 bar ( $-30 \dots +70 \text{ }^\circ\text{C}$ ) max. 10 bar ( $120 \text{ }^\circ\text{C}$ )
Process adaptation:	G 1" thread
Sensor cap:	7-pole

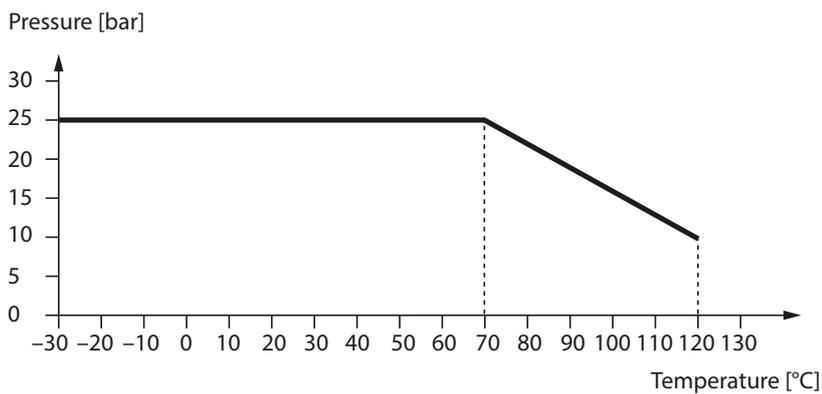
# SE 604 Conductivity Sensor

## Product Line

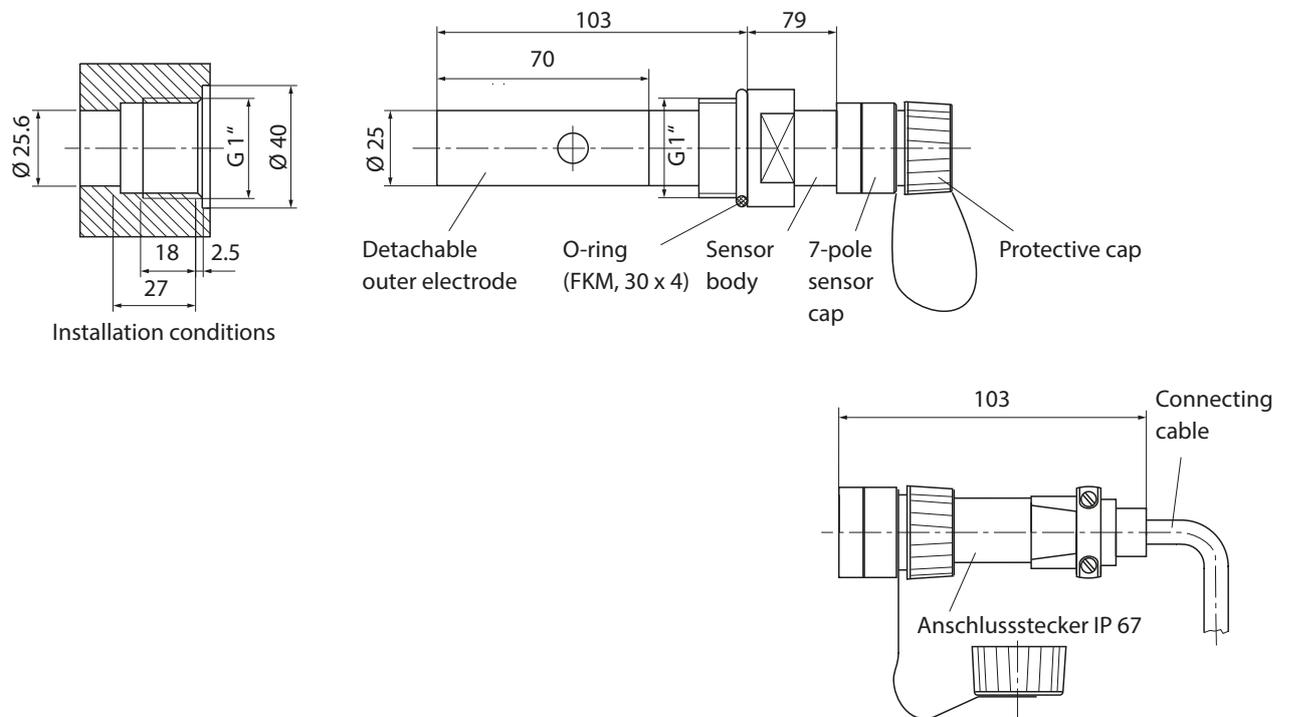
Sensor		Order No.
SE 604 Conductivity Sensor	G 1"	<b>SE 604</b>

Accessories			Order No.	
Measuring cable with plug	Sensor connection: 7-pole socket	1,5 m	<b>ZU 0743</b>	
	Device connection: wire end ferrules	3 m	<b>ZU 0645</b>	
	Temperature: -20 ... +80 °C	5 m	<b>ZU 0569</b>	
		10 m	<b>ZU 0570</b>	
		15 m	<b>ZU 0589</b>	
		20 m	<b>ZU 0590</b>	
		30 m	<b>ZU 0660</b>	
6-hole flange		<b>ZU 0278</b>		
Conductivity standard	KCl	15 µS/cm ± 1 %	300 ml	<b>ZU 0350</b>
	KCl	147 µS/cm ± 1 %	500 ml	<b>ZU 0702</b>
Calibration Certificate			<b>ZU 0320</b>	

## Pressure/Temperature Diagram



Dimension Drawing



All dimensions in mm !

# SE 604 Conductivity Sensors

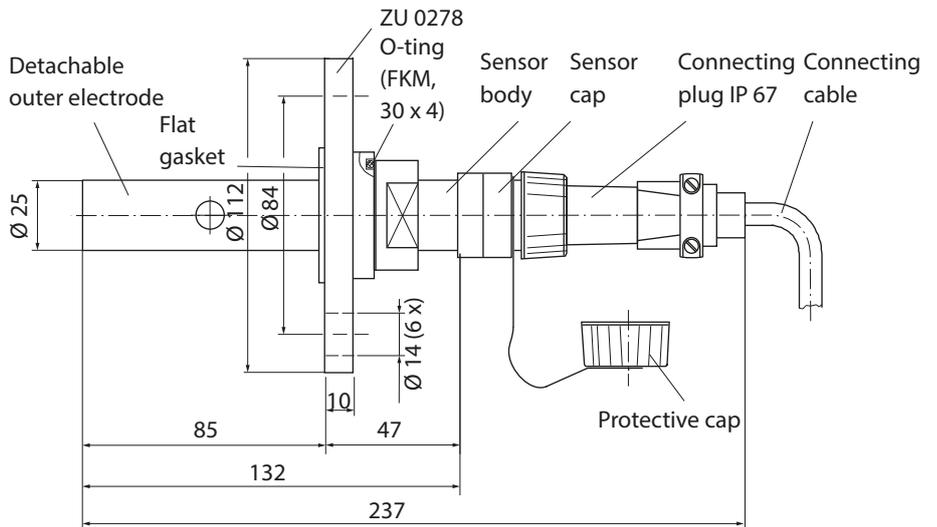
## Accessories/Specifications

Flange (6-hole)  
ZU 0278



Material: 1.4571 stainless steel  
 Accessories: 6 screws, washers, nuts, M 12, 1.4571 stainless steel  
 Pressure: Max. 10 bar  
 Temperature: Max. 120 °C  
 Sensor locations: 1 x G 1"  
 Sensors: SE 604

Dimension drawing SE 604 with ZU 0278 flange



All dimensions in mm !

Measuring cable for SE 604 with plug  
ZU 0645

Cable lengths: 1,5 m, 3 m, 5 m, 10 m, 15 m, 20 m, 30 m  
 Connection sensor: Plug 7pole  
 Connection device: Wire end ferrules  
 Temperature: -20 ... +80 °C

