

SE625 Conductivity Sensor

Sturdy 2-Electrode Sensor for Precise, Reliable Measurement of Low and Very Low Conductivity, in Particular in Ultrapure Water, Digital, with Memosens Technology

The SE625 conductivity sensor is a coaxial 2-electrode sensor with a measuring range of 0 ... 1000 $\mu\text{S}/\text{cm}$. The sensor body is made of stainless steel, the sensing electrodes of titanium.

The sensor is ideal for measuring and monitoring the conductivity of pure and ultrapure water.

In addition, Memosens technology provides the full range of established benefits in terms of handling and sensor diagnostics.

Applications

Water treatment processes, water for semiconductor industry/chip cleaning, water for injection (WFI), power plant water

Facts and Features

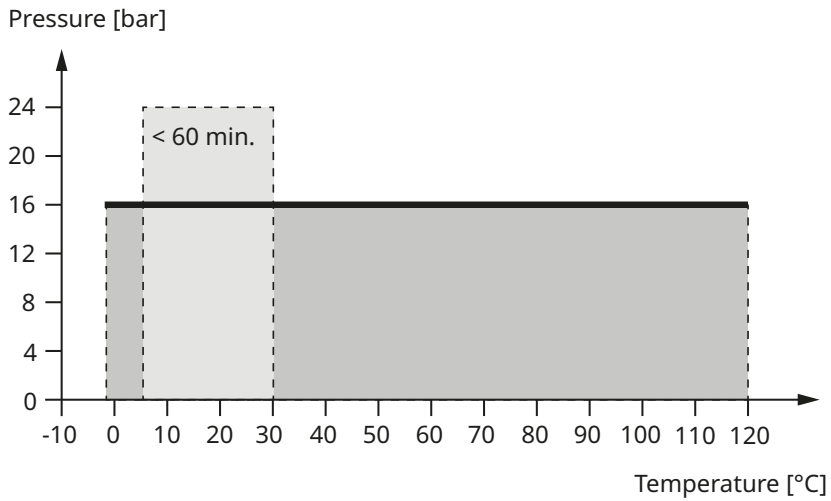
- Large measuring range of 0 ... 1,000 $\mu\text{S}/\text{cm}$
- Coaxially arranged electrodes
- Electrodes made of titanium
- Integrated temperature detector
- Durable materials and sturdy design for process safety
- Perfect galvanic isolation thanks to Memosens technology
- Maximum process safety
- Digital data transfer
- Integrated sensor diagnostics

Specifications

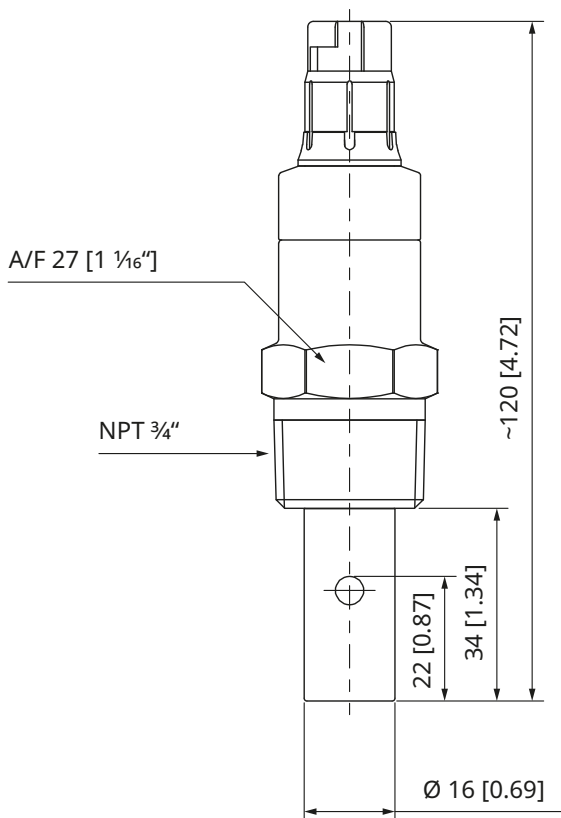
Cell constant:	0.080 /cm
Measuring range:	0 ... 1000 $\mu\text{S}/\text{cm}$
Measurement uncertainty:	0.05 + 0.02 * measured value ($\mu\text{S}/\text{cm}$)
Material:	Sensor body: 1.4404 (AISI 316L) Electrodes: 3.7035 (titanium grade 2) Isolator: PEEK
Gaskets:	See product line
Temperature detector:	NTC 30 k Ω Response time $t_{90} < 15 \text{ s}$
Temperature:	Medium: -10 ... 120 $^{\circ}\text{C}$ Environment: -25 ... 70 $^{\circ}\text{C}$
Permissible process pressure:	-1...16 bar (14.5 ... 232 psi)
Permissible transient pressure:	24 bar (348 psi) at 5 ... 30 $^{\circ}\text{C}$ (41 ... 86 $^{\circ}\text{F}$), max. 60 min.
Process connection:	NPT $\frac{3}{4}$ "
Degree of protection:	IP68 (10 m water column, 24 h)
Electrical connection:	Memosens
Weight:	approx. 0.15 kg

SE625 Memosens Conductivity Sensor

Pressure/Temperature Diagram



Dimension Drawing



All dimensions in mm [inches]

Product Line

2-Electrode Conductivity Sensor

Order No.

		SE625 -	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	/	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Explosion protection	None		N	N													
Communication	Memosens				M	S											
Process connection	NPT 3/4"						N	0									
Process connection material	Stainless steel (1.4404)								H								
Electrode material	Titanium Grade 2 (3.7035)									T							
Seal material	FKM																
	EPDM																
	FFKM																
Immersion depth	Short															A	
Add-on function	None																0
Special version	None																0 0 0

SE625 Memosens Conductivity Sensor

Accessories

Cable	Cable End	Length	Order No.	
Memosens cable	Ferrule	3 m	CA/MS-003NAA	
		5 m	CA/MS-005NAA	
		10 m	CA/MS-010NAA	
		20 m ^{*)}	CA/MS-020NAA	
	M12 plug (8-pin)	3 m	CA/MS-003NCA	
		5 m	CA/MS-005NCA	
		10 m	CA/MS-010NCA	
		20 m ^{*)}	CA/MS-020NCA	
Standard	Type	Quantity	Order No.	
Conductivity standard	KCl	1.3 µS/cm	300 ml	ZU0701
	KCl	15 µS/cm	500 ml	CS-C15K/500
	KCl	147 µS/cm	500 ml	CS-C147K/500
Certificate			Order No.	
Calibration certificate for conductivity sensors			ZU0320	
MemoSuite			Order No.	
Management software for Memosens sensors	Basic version (calibration)		SW-MS1400-B	
	Advanced version (calibration, diagnostics, documentation)		SW-MS1400-A	

^{*)} Greater lengths on request

