Pharm Food

SE 605 (H) Memosens Conductivity Sensor

Robust 2-electrode sensor, for precise and reliable measurement of low and very low conductivities, particularly in ultrapure water, digital, with Memosens technology

Robust, coaxially arranged electrodes made of stainless steel. Large measuring range from ultrapure water to 1000 µS/cm with only one sensor model (cell constant). Integrated temperature detector for exact temperature compensation. Easy to clean thanks to replaceable outer electrode.

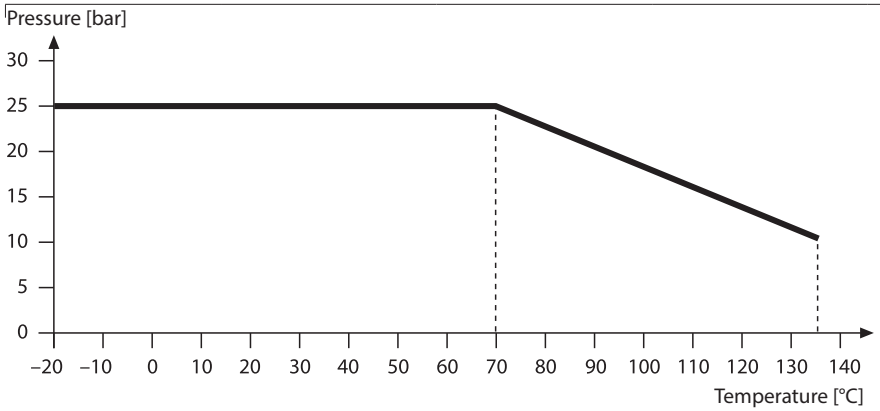
Applications
Ultrapure water, WFI (water for injection), pharmaceutical and food industry, biotechnology

Facts
- Perfect galvanic isolation thanks to Memosens technology
- Digital data transfer
- Integrated sensor diagnostics
- Large measuring range from ultrapure water to 200 µS/cm
- Hygienic design
- Electropolished – roughness 0.4 to 0.8 µm
- FDA-certified materials
- 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

Specifications

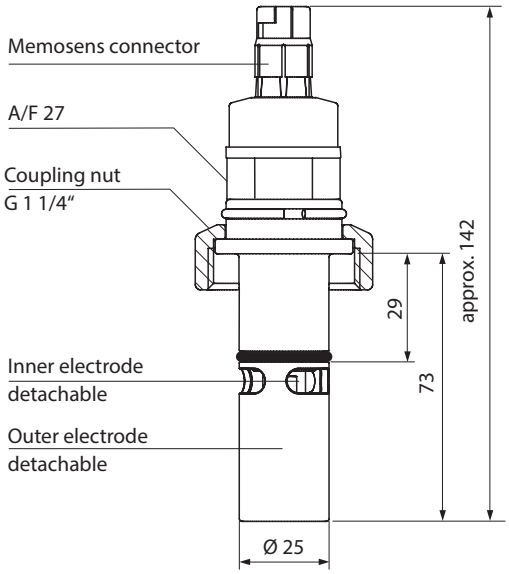
Cell constant:	0.021/cm ± 1 %
Measuring range:	0.04 ... 200 µS/cm
Accuracy:	± 2% meas. value
Repeatability:	0.2 % meas. value + 3 nS/cm
Response time:	T_{95} < 3 s
Material:	Cell and electrodes: stainless steel 1.4435, PEEK insulator
Temperature detector:	NTC 30 kohms
Temperature:	Medium: -20 … +135 °C Environment: -25 … +80 °C
Pressure:	Max. 25 bar (–20 … +70 °C) Max. 10 bar (135 °C)
Process adaptation:	See product line
Sensor connector:	Memosens

Pressure/Temperature Diagram

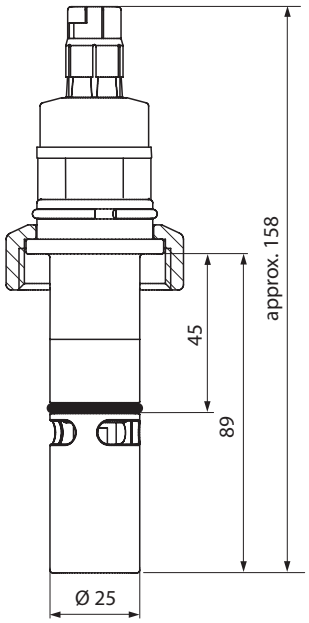


Dimension Drawings

Ingold socket process adaptation, e.g. 40 mm (H0)



Ingold socket process adaptation, e.g. 50 mm (HZ)



All dimensions in mm

SE 605 Memosens Conductivity Sensor

Product Range

		Order No. SE 605 -						
Explosion protection	Without	N						
	ATEX	X						
Sensor cap	Memosens, digital		MS					
	M12 (8-pin), analog		12					
Process adaptation	Ingold socket, 25 mm (G 1 1/4"), 29-mm groove			H	0			
	Ingold socket, 25 mm (G 1 1/4"), 45-mm groove			H	Z			
	G1			G	1			
	For ball-valve fitting, length = 110 mm			A	1			
	For ball-valve fitting, length = 210 mm			A	2			
Gasket material	Elastomeric ring set F, FKM (Viton) FDA					F		
	Elastomeric ring set E, EPDM FDA					E		
	Elastomeric ring set H, FFKM FDA					H		
Certificates	Without							0
	Material Certificate 3.1 and roughness < 0.8 µm							1

Accessories (Details from pages 134 and 206)

					Order No.
Memosens cable				3 m	CA/MS-003NAA
				5 m	CA/MS-005NAA
				10 m	CA/MS-010NAA
				20 m*)	CA/MS-020NAA
Memosens cable, Ex				3 m	CA/MS-003XAA
				5 m	CA/MS-005XAA
				10 m	CA/MS-010XAA
				20 m*)	CA/MS-020XAA
Conductivity standard	KCl	300 ml	15 µS/cm	± 1 %	ZU 0350
	KCl	500 ml	147 µS/cm	± 1 %	ZU 0702
Calibration Certificate					ZU 0320
Safety weld-in socket, straight, 40 mm	For tank wall				ZU 0717
	For pipe, DN 50				ZU 0717/DN50
	For pipe, DN 65				ZU 0717/DN65
	For pipe, DN 80				ZU 0717/DN80
	For pipe, DN 100				ZU 0717/DN100
Safety weld-in socket, beveled, 15°, 40 mm	For tank wall				ZU 0718
	For pipe, DN 50				ZU 0718/DN50
	For pipe, DN 65				ZU 0718/DN65
	For pipe, DN 80				ZU 0718/DN80
	For pipe, DN 100				ZU 0718/DN100

*) Greater lengths on request

Knick

SE 605H Memosens Conductivity Sensor

Product Range		Order No.						
		SE 605H -	☐	☐	☐	☐	☐	☐
Explosion protection	Without		**N**					
	ATEX		**X**					
Sensor cap	Memosens, digital			**MS**				
	M12 (8-pin), analog			**12**				
Process adaptation	Ingold socket, 25 mm (G 1 1/4"), 29-mm groove				**H**	**0**		
	Ingold socket, 25 mm (G 1 1/4"), 45-mm groove				**H**	**Z**		
	Clamp 1.5"				**J**	**1**		
	Clamp 2"				**J**	**2**		
	Varivent, 1.4435, for pipe ≥ DN 40/50				**V**	**1**		
	Varivent, 1.4435, for pipe, ≥ DN 80				**V**	**2**		
Gasket material	Elastomeric ring set F, FKM (Viton) FDA						**F**	
	Elastomeric ring set E, EPDM FDA						**E**	
	Elastomeric ring set H, FFKM FDA						**H**	
Certificates	Without							**0**
	Material Certificate 3.1 and roughness < 0.8 µm							**1**
	Material Certificate 3.1 and roughness < 0.4 µm							**2**
	Material Certificate 3.1 and roughness < 0.8 µm USP<88> <661>							**3**
	Material Certificate 3.1 and roughness < 0.4 µm USP<88> <661>							**4**