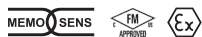


SE605H CONDUCTIVITY SENSOR

Hygienic Coaxial Conductivity Sensor for Low-Conductivity Water



Overview

The SE605H is a robust conductivity sensor. It has a hygienic design made of stainless steel in coaxial arrangement. A large measuring range from ultra-pure water to 1000 $\mu\text{S}/\text{cm}$. Integrated temperature detector compensates for temperature. The replaceable outer and inner electrodes are easy to clean

KEY FEATURES

- Electropolished - Roughness $R_a \leq 0.4$ or $\leq 0.8 \mu\text{m}$
- FDA-certified materials
- Easy to clean thanks to replaceable outer and inner electrode
- Optional CondCheck option for sensor transmitter verification

APPLICATIONS

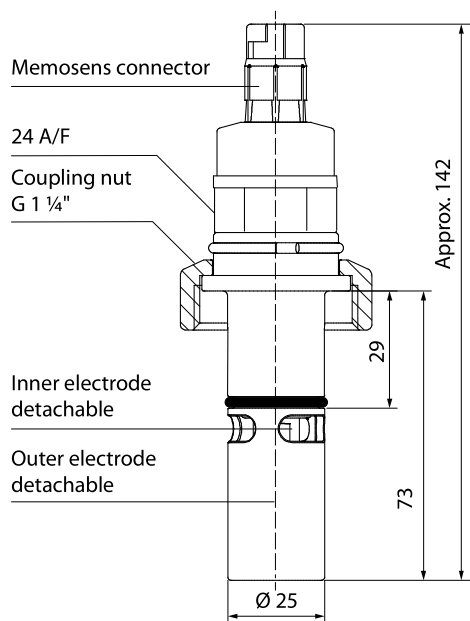
- Ultra-pure water
- Water for injection (WFI)
- CIP + SIP installations
- Stream methane reforming

Specifications

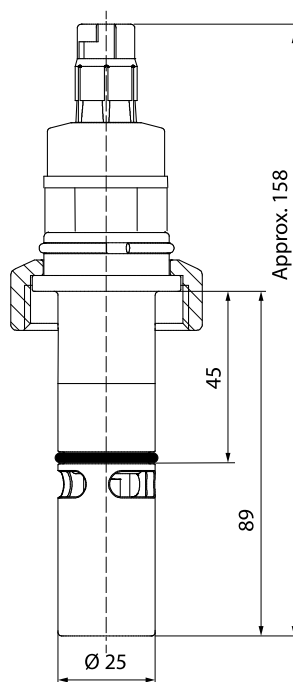
Dimension	Length	61, 73, or 89 mm
	Process connection	25mm Ingold socket, 1 1/2" or 2" tri-clamp
Ranges	Measurement	0...1000 $\mu\text{S}/\text{cm}$
	Cell constant	0.021/cm
	Temperature	-4...275 °F (-20...135 °C)
	Pressure	Ingold: 0...362 psig (0...25 bar)
		Tri-clamp: 0...232 psig (0...16 bar)
Construction	Sensor material	Stainless steel 1.4435
		Insulator: PEEK
		Gasket: FKM FDA, EPDM FDA, FFKM FDA, FKM FDA USP VI, EPDM FDA USP VI, FFKM FDA USP VI
	Sensor cap	Memosens®
	Temperature detection	NTC 30 k Ω
Certificates	ATEX	II 1 G Ex ia IIC T3/T4/T6
	FM approvals (US & C)	CL I, Div I, Gp ABCD T3/T4/T6
		IS for CL I, Div 1, Grp ABCD; CL I, Zone 0, Aex/Ex ia IIC T6...T4
		NIFW for CL I, Div 2, Groups ABCD; CL I, Zone 2, IIC T6...T4

Dimensional Drawing

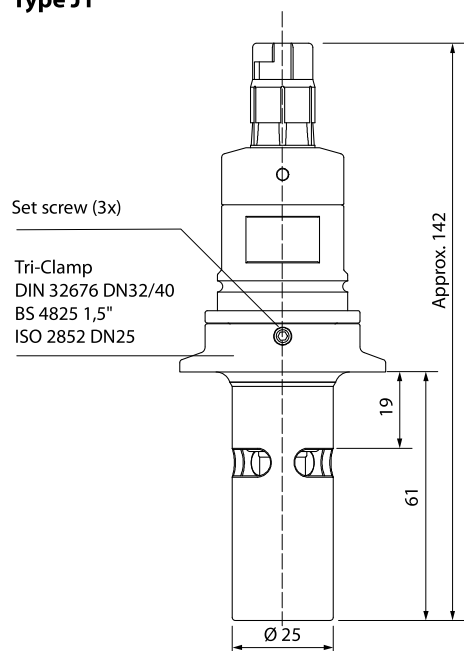
**Ingold socket process connection,
groove position 29 mm (Type H0)**



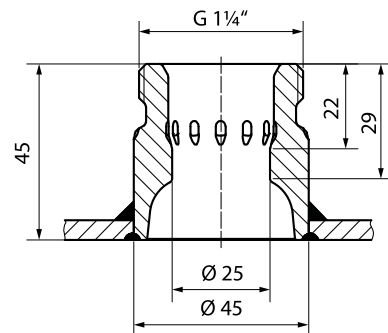
**Ingold socket process connection,
groove position 45 mm (Type HZ)**



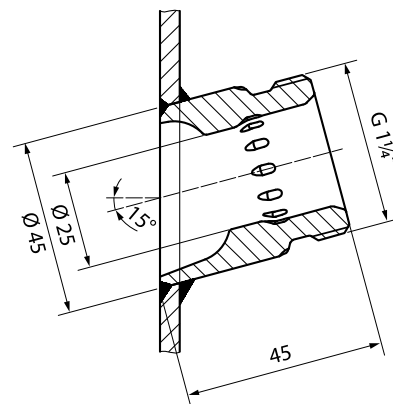
**Process connection clamp
Type J1**



Weld-in socket, straight
With HSD (handling safety design)
safety function
ZU 0922



Weld-in socket inclined, 15°
With HSD (handling safety design)
safety function
ZU 0923



Note: The weld-in sockets listed above are only suitable for sensors with design version H0. For additional weld-in sockets, see accessories.

Accessories

		Part Number
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
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
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
Weld-in socket with HSD (handling safety design) safety function, straight	For tank wall	ZU 0922
	For pipe, DN 50	ZU 0922/DN50
	For pipe, DN 65	ZU 0922/DN65
	For pipe, DN 80	ZU 0922/DN80
	For pipe, DN 100	ZU 0922/DN100
Weld-in socket with HSD (handling safety design) safety function, beveled, 15°	For tank wall	ZU 0923
	For pipe, DN 50	ZU 0923/DN50
	For pipe, DN 65	ZU 0923/DN65
	For pipe, DN 80	ZU 0923/DN80
	For pipe, DN 100	ZU 0923/DN100

* Greater lengths on request

Part Number

		SE605H -					/	-		
Explosion protection	Without ATEX	N X								
Sensor connector	Memosens		MS							
Process connection	Ingold socket, 25 mm (G 1 ¼"), 29-mm groove		H	0						
	Ingold socket, 25 mm (G 1 ¼"), 45-mm groove		H	Z						
	Clamp 1 ½"		J	1						
	Clamp 2"		J	2						
Gasket material	FKM FDA EPDM FDA FFKM FDA FKM FDA USP VI EPDM FDA USP VI FFKM FDA USP VI		F E H V U W							
Special Version	Without CondCheck							000 OOP		
	Certificates	Without Inspection Certificate 3.1 according to EN 10204 FDA - USP VI Surface Ra ≤ 0.4 µm Surface Ra ≤ 0.8 µm FDA								000 003 00U 004 008 00F