

SE605H pharma

2-Electrode Conductivity Sensor with CondCheck Option



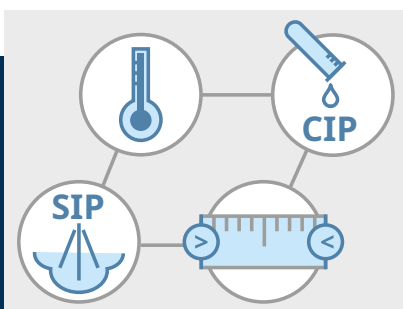
Conductivity sensor with hygienic design made of stainless steel with process connections for pharmaceutical applications.

Wide measuring range – from ultra-pure water up to 1000 $\mu\text{S}/\text{cm}$.

Easy cleaning and maintenance with replaceable electrodes.

With the CondCheck function, the electronics in the sensor and the overall measuring chain can both be checked. The check can be carried out in the installed state.

The materials used are FDA- and USP-VI-certified.



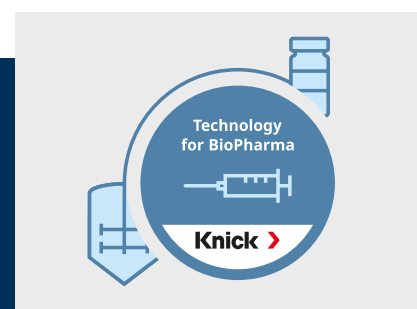
Highly Developed Measuring Technology

- Wide measuring range from ultra-pure water up to 1000 $\mu\text{S}/\text{cm}$
- Integrated temperature detector for quick temperature compensation
- SIP- and CIP-capability



Measured Value Verification and Easy Maintenance

- CondCheck option: Verification USP<645>-compliant without sensor removal
- Inner and outer electrodes can be cleaned
- Replaceable O-rings



Process Connections and Materials

- Ingold (two lengths) and clamp (1.5" and 2")
- FDA- and USP-VI-certified materials
- Electropolished surface, roughness $R_a \leq 0.4$ or $\leq 0.8 \mu\text{m}$

Product Code

Hygienic 2-Electrode Conductivity Sensor		SE605H	-	-	-	-	-	/	-	-	-	-	-	-
Explosion protection	Without		N											
	ATEX		X											
Communication	Memosens		MS											
Process connection	Ingold socket 25 mm, (G 1¼")			H	0									
	Ingold socket 25 mm, (G 1¼"), 50 mm long			H	Z									
	Clamp 1.5"			J	1									
	Clamp 2"			J	2									
Seal material	FKM FDA					F								
	EPDM FDA					E								
	FFKM FDA					H								
	FKM FDA USP VI					V								
	EPDM FDA USP VI					U								
	FFKM FDA USP VI					W								
Special version ¹⁾	Without						/	0	0	0				
	Customer-specific special datasheet						/	0	0	F				
	CondCheck						/	0	0	P				
Certificates ²⁾	Without										-	0	0	0
	Inspection Certificate 3.1 in accordance with EN 10204										-	0	0	3
	FDA - USP VI										-	0	0	U
	Surface Ra < 0.4 µm										-	0	0	4
	Surface Ra < 0.8 µm										-	0	0	8
	FDA										-	0	0	F

Specifications

Cell constant	0.021 /cm
Measuring range	0 ... 1000 µS/cm
Measurement uncertainty	0.05 + 0.02 × measured value (µS/cm; measuring range < 600 µS/cm) 0.05 + 0.04 × measured value (µS/cm; measuring range ≥ 600 µS/cm)
Material	
Sensor body	Stainless steel 1.4435
Electrodes	Stainless steel 1.4404
Isolator	PEEK
Seals	→ Product Code
Test point ³⁾	PEEK, PVDF
Test jacks ³⁾	CuZn gold-plated, Ø 4 mm, spacing 14 mm

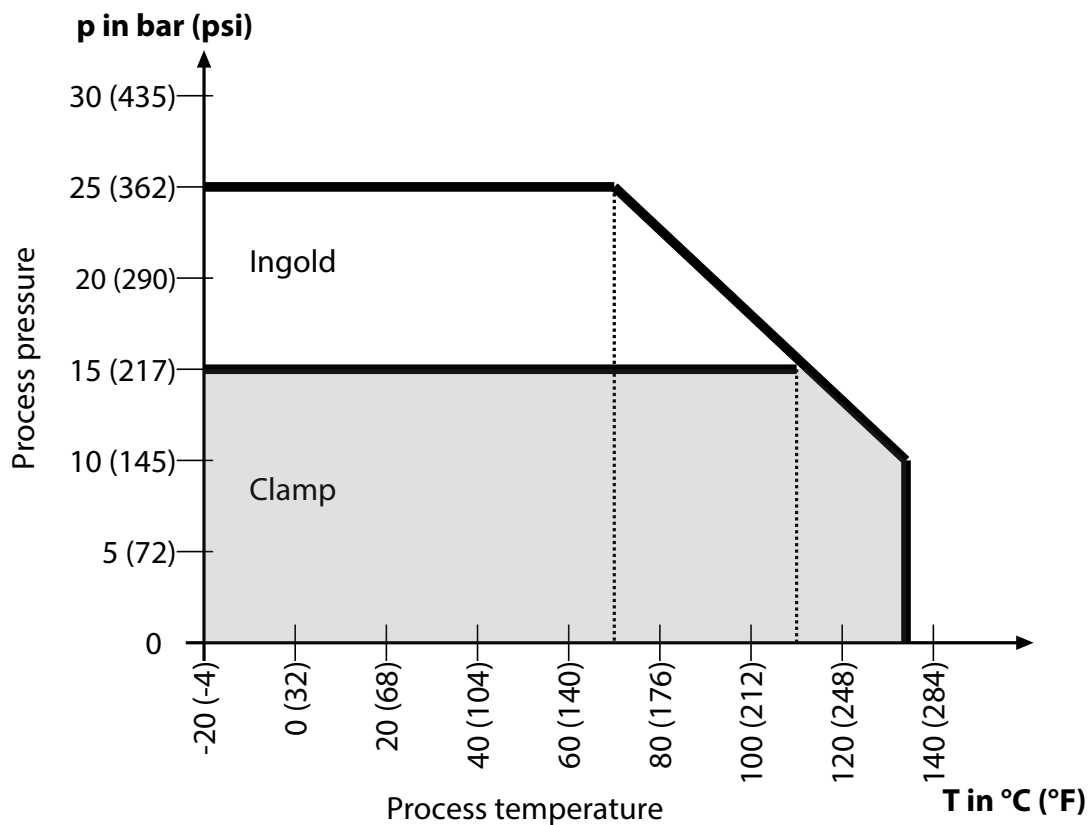
1) Can be combined.

2) Can be combined. Max. three certificates possible.

3) CondCheck special version

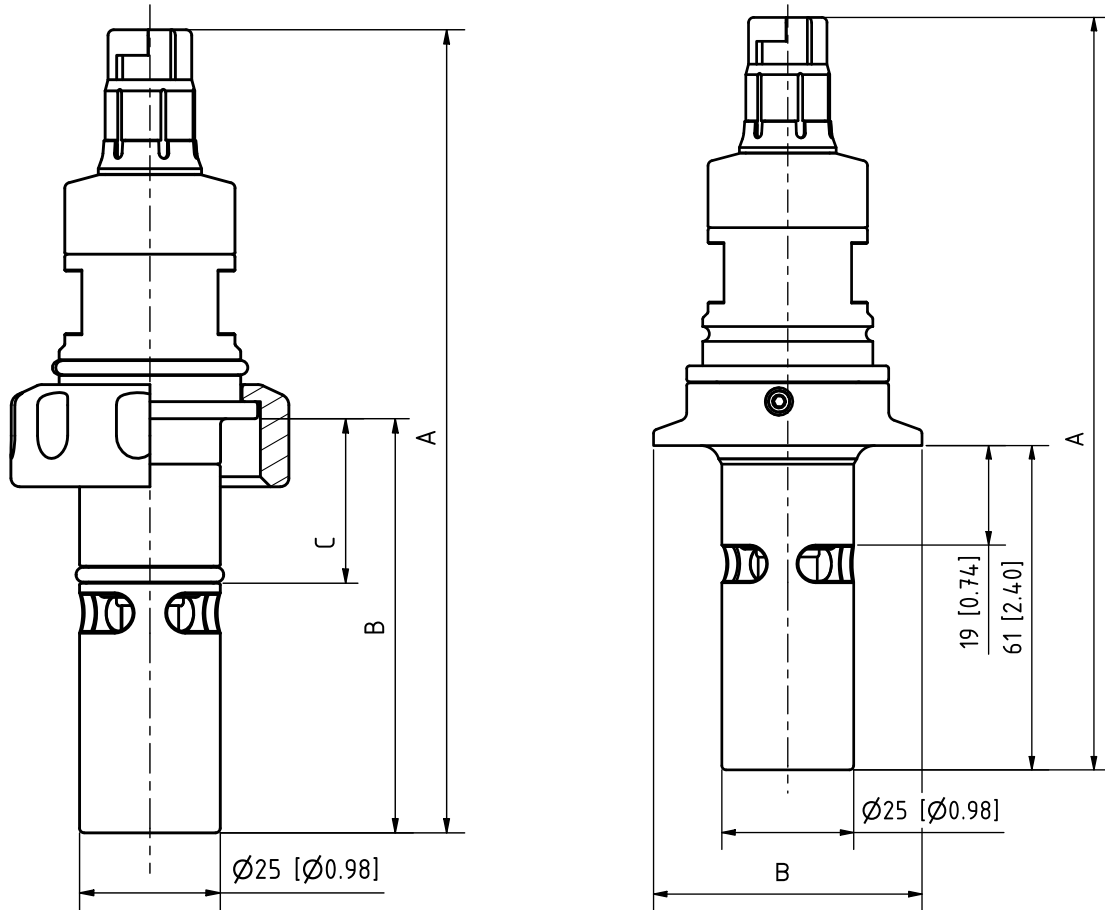
Temperature detector	NTC 30 k Ω
Temperature	-20 ... 135 °C (-4 ... 275 °F)
Ambient	-25 ... 80 °C (-13 ... 176 °F)
Ingold socket pressure	
-20 ... 70 °C (-4 ... 158 °F)	Max. 25 bar (362.6 psi)
70 ... 135 °C (158 ... 275 °F)	Linear drop 10 bar (145 psi)
Clamp pressure	
-20 ... 110 °C (-4 ... 230 °F)	Max. 16 bar (232 psi)
110 ... 135 °C (230 ... 275 °F)	Linear drop 10 bar (145 psi)
Process connection	→ <i>Product Code</i>
Electrical connection	Memosens connector
Degree of protection	IP68
Dimensions	→ <i>Dimension Drawings</i>
Weight	Approx. 0.5 kg

Pressure/Temperature Diagram



Dimension Drawings

Note: All dimensions are listed in millimeters [inches].



Process connection	A	B	C	Process connection	A	B
Ingold 29 mm	142 mm (5.57")	73 mm (2.87")	29 mm (1.14")	Clamp 1.5"	142 mm (5.57")	Ø 51 mm (G1.5")
Ingold 45 mm	158 mm (6.20")	89 mm (3.50")	45 mm (1.77")	Clamp 2"	142 mm (5.57")	Ø 64 mm (G2")
Ingold 29 mm with CondCheck	172 mm (6.87")	73 mm (2.87")	29 mm (1.14")	Clamp 1.5" with CondCheck	172 mm (6.57")	Ø 51 mm (G1.5")
Ingold 45 mm with CondCheck	188 mm (7.50")	89 mm (3.50")	45 mm (1.77")	Clamp 2" with CondCheck	172 mm (6.57")	Ø 64 mm (G2")

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Subject to change.