

Industrial Conductivity Probe for Low-conductance Waters CSK

- ◆ For up to 2 mS/cm water applications
- ◆ Two-electrode cell design
- ◆ Built-in Pt temperature sensor
- ◆ Detachable DIN connector
- ◆ Stainless steel wetted parts
- ◆ Electrochemical polishing for food applications



The CSK probe is a robust industrial grade conductivity probe for submersion and in-line mounting designed for general and heavy duty industrial low-conductance water applications with conductivity range up to 2mS/cm. The probe design includes stainless steel sheath with tread and external electrode, internal electrode with built-in optional temperature sensor for temperature compensation and a convenient fast-detachable DIN connector. The CSK probe is a 2-electrode cell with selectable electrode length providing variable cell constant from 0.01 to 0.2 cm⁻¹ and it is well suited with COMECO conductivity transmitter series PHC. Optional electrochemical polishing of the wetted parts allows usage in food processing equipment.

Technical specifications

Variant	1	2	5	10	20
Specifications					
Cell constant [cm⁻¹]	0.01	0.02	0.05	0.1	0.2
Conductivity ranges [µS/cm]	0÷1 to 0÷100	0÷2 to 0÷200	0÷5 to 0÷500	0÷10 to 0÷1000	0÷20 to 0÷2000
External electrode (D x w)	12 x 1.5 mm	12 x 1 mm	16 x 1.5 mm	16 x 1.5 mm	18 x 1 mm
Internal electrode (d)	6 mm	6 mm	6 mm	6 mm	6 mm
Probe insertion length (n)	70 mm	48 mm	24 mm	20 mm	16 mm
Probe extension length (m)	0 ... 100 mm				
Applicable conductance range	0.1 ... 10000 µS				
Electrodes design	external electrode (connected to the sheath), isolated internal electrode (with built-in Pt1000 temperature sensor)				
Process connection	G1/2" or 1/2" NPT				
Operating temperature	-10...150 °C				
Operating pressure	up to 6 bar				
Wetted parts	electrodes: stainless steel, mounting thread: stainless steel, insulation: Teflon®				
Sheath material	stainless steel				
Wiring	4-pin detachable connector DIN 43650				
Mounting	from vessel outside				
Protection	IP65 (connector)				

Ordering code CSK* - G2.G6.G9.G10 - #1

Code	Feature or option	Code values
*	Variant	1, 2, 5, 10, 20 (see tables above)
G2	Temperature sensor	X - none, RG - Pt1000, Z - other (on request)
G6	Probe extension length 'm' [mm]	0...100
G9	Mounting connection 'G'	Q4 - G1/2", Q10 - 1/2" NPT
G10	Electrode material	M1 - 1.4301, M2 - 1.4541, M3 - 1.4571, M9 - 1.4404, M15 - 1.4362
#1	Options	X - none, OP - electrochemically polished wetted parts

COMECO reserves the right of changing specifications without prior notice!