

Sensors for Conductivity Measurement



K25 Conductivity Sensor

Sensor for heavily polluted and fibrous processes

The K25 is a four-electrode conductivity sensor for heavily polluted and fibrous processes. The sensor has a wide measuring range from 0-1,000 mS/cm. Its 12 mm diameter allows for simple integration into multiple types of electrode holders. Additionally, an integrated temperature element assures that all conductivity measurements are accurately compensated for the process media temperature.

Facts

- Large measuring range of 0...1,000 mS/cm
- Integrated temperature detector
- Durable materials and sturdy design for process safety
- Pairs easily with standard static and retractable holders

Applications

- Heavily polluted and fibrous media
- Cooling towers
- Highly corrosive chemical processes
- Bleaching liquors
- Oxidizing liquors

Specifications

Cell constant	0.55 (nominal)
Measuring range	0...1,000 mS/cm
Materials	Sensor body: PEEK Wetted materials: Graphite, Stainless Steel, PEEK
Temperature sensor	PT 1000
Temperature range	32...302 °F (0...150 °C)
Max Pressure	10 bar (145 psi)
Process connection	VP 6 with PG 13.5 thread
Length	120 mm or 225 mm
Diameter	12 mm
Electrodes	Graphite

Product range

K25 4-electrode sensor, 12 mm, PG 13.5	Length	Order No.
	120 mm	K25-120/VP6
	225 mm	K25-225/VP6

Accessories

Cable	Length	Order No.
VP6-ST cable	3 m	CA/VP6ST-003A
	5 m	CA/VP6ST-005A
	10 m	CA/VP6ST-010A
	20 m	CA/VP6ST-020A

Standard

	Quantity	Order No.
Conductivity standard 147 $\mu\text{S}/\text{cm}$, $\pm 1\%$	500 ml	CS-C147K/500
Conductivity standard 1413 $\mu\text{S}/\text{cm}$, $\pm 2\%$	500 ml	CS-C1413K/500
Conductivity standard 12.88 mS/cm , $\pm 1.5\%$	500 ml	CS-C12880K/500

Dimensional Drawing

