

COMPACT-LINE



- Conductive measuring system (two-electrode system)
- Measuring range:
 0.05 ... 10 $\mu\text{S/cm}$ (K=0.01 1/cm)
 0.5 ... 5000 $\mu\text{S/cm}$ (K=0.1 1/cm)
 5 $\mu\text{S/cm}$... 100 mS/cm (K=1.0 1/cm)
- Body material PVDF
- G $\frac{3}{4}$ A BSP thread
- Rated pressure to 16 bar
- Thermostability up to 135 °C
- Electrode material stainless steel 1.4571 (K = 1,0 1/cm graphite)
- Integrated temperature sensor Pt 100



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KOBOLD Messring GmbH
 Nordring 22-24
 D-65719 Hofheim/Ts.
 ☎ +49(0)6192 299-0
 Fax +49(0)6192 23398
 E-Mail: info.de@kobold.com
 Internet: www.kobold.com

Model:
 ACS-Z



Description

The conductivity measuring cells are used with transducer model ACM-Z. The cells comprise a screw-in body made of plastic (PVDF) and electrodes embedded in this body. A temperature sensor Pt100 for temperature detection and compensation is also integrated. The electrodes are manufactured from Stainless Steel or special graphite and are delivered with different cell constants and thus measuring ranges. The electrical connection of the cells is carried out with plug connections.

Technical Datas

Measuring ranges: 1: 0.05...10 µS/cm (K = 0.01 1/cm)
 2: 0.5...5000 µS/cm (K = 0.1 1/cm)
 3: 5 µS/cm...100 mS/cm (K = 1.0 1/cm)

Measuring surfaces: stainless steel 1.4571 for measuring ranges 1 and 2
 spezial graphite for measuring range 3

Body material: PVDF (Polyvinylidene fluoride)

Thermostability: 135 °C (at 1 bar)

Rated pressure: 16 bar (at 25 °C)

Linear dependence of pressure an temperature

Screw-in thread: G 3/4 A

Temperature sensor: Pt 100 integrated

Thermostability of cable ACK-Z: -5...+80 °C

Cell constant and measuring range

Cell constant K ^{B)}	Measuring range ^{B)}	Display with configured measured quantity		Range (rAnG)
		µS	mS	
0.01	0...0.500 µS/cm	0.500	A)	1
0.01	0...2.000 µS/cm	2.000	A)	2
0.01	0...10.00 µS/cm	10.00	A)	3
0.1	0...5.000 µS/cm	5.000	A)	4
0.1	0...20.00 µS/cm	20.00	A)	5
0.1	0...100.0 µS/cm	100.0	A)	6
0.1	0...1.000 mS/cm	1000	1.000	7
0.1	0...5.000 mS/cm	5000	5.000	8
1.0	0...50.00 µS/cm	50.00	A)	9
1.0	0...100.0 µS/cm	100.00	A)	10
1.0	0...1.000 mS/cm	1000	1.000	11
1.0	0...5.000 mS/cm	5000	5.000	12
1.0	0...20.00 mS/cm	A)	20.00	13
1.0	0...100.0 mS/cm	A)	100.0	14

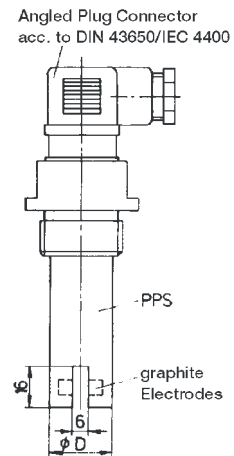
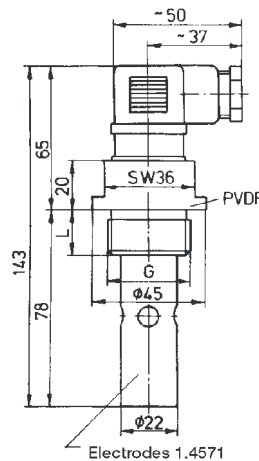
A) These settings are not allowed and cause incorrect indication.

B) The pre-selection of the measuring range and cell constant is carried out with the code number "Range" in the transmitter ACM-Z.

Dimensions

Cell constant K = 0.01; K = 0.1 1/cm

Cell constant K = 1.0 1/cm



Order Details Measuring Cell (Example: ACS-Z 1 T 1 G)

Model	Measuring range	Temperature sensor	Electrical connection	Process connection
ACS-Z	1 = Measuring range 1: 0.05...10 µS/cm (K=0.01 1/cm) 2 = Measuring range 2: 0.5...5000 µS/cm (K=0.1 1/cm) 3 = Measuring range 3: 5 µS/cm...100 mS/cm (K=1.0 1/cm)	T = with Pt 100	1 = 1 plug and socket connection	G = thread G 3/4 A

Order Details Cable

Model	Length
ACK-Z	05 = 5 m 10 = 10 m 15 = 15 m 20 = 20 m 25 = 25 m