



## Conductive Conductivity Measuring Cells



measuring  
•  
monitoring  
•  
analysing

ACS-Z  
COMPACT-LINE



- Conductive measuring system (two-electrode system)
- Measuring range:  
0.05 ... 10  $\mu\text{S}/\text{cm}$   
( $K=0.01$  1/cm)  
1 ... 1000  $\mu\text{S}/\text{cm}$   
( $K=0.1$  1/cm)  
10  $\mu\text{S}/\text{cm}$  ... 15  $\text{mS}/\text{cm}$   
( $K=1.0$  1/cm)
- Body material PVDF
- G  $\frac{3}{4}$  A BSP thread
- Rated pressure to 16 bar (at +25 °C)
- Thermostability up to 135 °C
- Electrode material stainless steel 1.4571 (at  $K=1.0$  1/cm graphite)
- Integrated temperature sensor Pt 100



A1

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**Description**

The conductivity measuring cells are used with transducer model ACS-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 various measuring ranges. The electrical connection of the cells is carried out with plug connections.

**Typical Applications**

**K = 0.01 / K = 0.1**

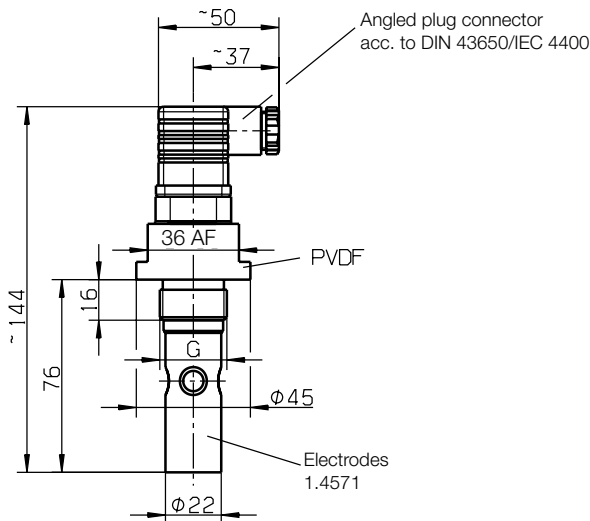
Pure and ultra-pure water, pharmaceutical industry, chemical industry, foodstuff technology, chip manufacture, ion exchanger plants and reverse osmosis plants.

**K = 1.0**

- Media separation
- Drinking water purification
- Wastewater checks/treatment

**Dimensions**

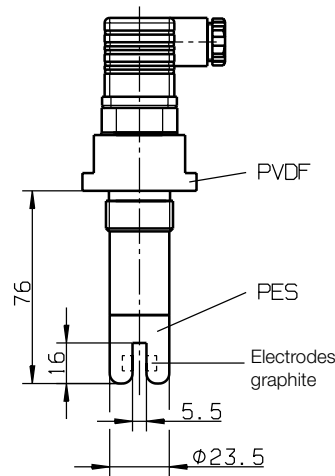
Cell constant  
K = 0.01; K = 0.1 1/cm



**Technical Details**

- Measuring ranges: 1: 0.05... 10 μS/cm (K = 0.01 1/cm)  
 2: 1 ... 1000 μS/cm (K = 0.1 1/cm)  
 3: 10 μS/cm... 15 mS/cm (K = 1.0 1/cm)
- Measuring surfaces: stainless steel 1.4571 for measuring ranges 1 and 2  
 special graphite for measuring range 3
- Body material: PVDF (Polyvinylidenfluoride)
- Thermostability: 135 °C (at 1 bar)
- Rated pressure: 16 bar (at 25 °C)
- Linear dependence of pressure and temperature*
- Screw-in thread: G ¾ A
- Temperature sensor: Pt 100 integrated
- Thermostability of cable ACK-Z: -5...+80 °C

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	<b>1 = measuring range 1:</b> 0.05... 10 μS/cm (K = 0.01 1/cm)	T = with Pt 100	1 = 1 plug and socket connection	G = thread G ¾ A
	<b>2 = measuring range 2:</b> 1 ... 1000 μS/cm (K = 0.1 1/cm)			
	<b>3 = measuring range 3:</b> 10 μS/cm... 15 mS/cm (K = 1.0 1/cm)			

**Order Details Cable**

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