



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 mS/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



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Description

The conductivity measuring cells are used with transducer model ACM-1. 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

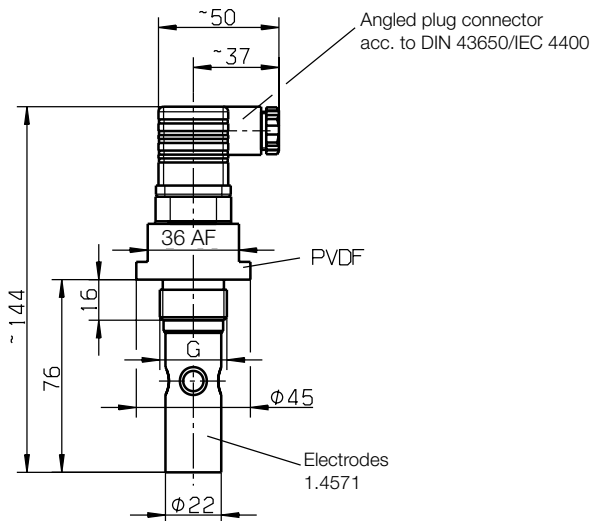
Pure and ultra-pure water, pharmaceutical industry, chemical industry, foodstuff technology, chip manufacture, ion exchanger plants and reverse osmosis plants.

K = 1.0

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

Dimensions

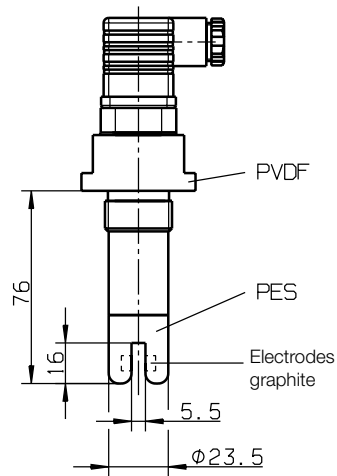
Cell constant
K = 0.01; K = 0.1 1/cm



Technical Details

- Measuring ranges:
 - 1: 0.05... 10 μ S/cm (K = 0.01 1/cm)
 - 2: 1 ... 1000 μ S/cm (K = 0.1 1/cm)
 - 3: 10 μ S/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 $\frac{3}{4}$ 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 | 1 = measuring range 1: 0.05... 10 μ S/cm (K = 0.01 1/cm) | T = with Pt 100 | 1 = 1 plug and socket connection | G = thread G $\frac{3}{4}$ A |
| | 2 = measuring range 2: 1 ... 1000 μ S/cm (K = 0.1 1/cm) | | | |
| | 3 = measuring range 3: 10 μ S/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 |