

Sensors for Conductivity Measurement

Chem



SE 656 Toroidal Conductivity Sensor

Special and precise sensor with high chemical resistance over a very large measuring range, for heavily polluted and strongly oxidizing media

Corrosion-resistant toroidal sensor for measuring pure water up to maximum conductivities. Insensitive to strongly oxidizing media. Smooth, easy-to-clean design. High accuracy due to electrodeless measurement.

Low risk of contamination because of large sensor opening.

Also suitable for hazardous locations.

Facts

- Robust design
- Extremely large measuring range due to inductive measuring principle
- Insensitive to contamination
- No process-wetted electrodes
- Extremely high chemical resistance (PFA)
- Measurement in hazardous locations

Applications

Conductivity measurement of highly concentrated acid and alkaline solutions, hydrofluoric acid, nitric acid, concentrated sulfuric acid, oleum, concentrated alkaline solutions, strongly oxidizing media

Specifications

Cell factor: Approx. 2/cm (≥ 30 mm distance to wall)

Measuring range: 0.002 to 2000 mS/cm

Accuracy: \pm (5 μ S/cm +0.5 % measured value) at -20 °C ... +100 °C

 \pm (10 $\mu S/cm$ +0.5 % measured value) at >100 °C

Material: Cell: PFA; Gasket: FFKM (Chemraz)

Temperature detector: Pt 100 (Class A)

Temp. response time t_{90} : Approx. 11 min

Temperature: $-20 \dots +125 \,^{\circ}\text{C}$ Pressure: $0 \dots 16 \,^{\circ}\text{bar}$ Cable: Fixed cable, 5 m

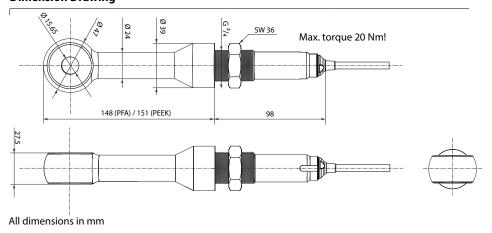
Protection: IP 68 (when mounted)

Assembly: G 3/4" (36-mm nut and FFKM (Chemraz) gasket

included in shipment)

ATEX Certificate (SE 656 X): II 1 G Ex ia IIC T4/T6 Ga

Dimension Drawing



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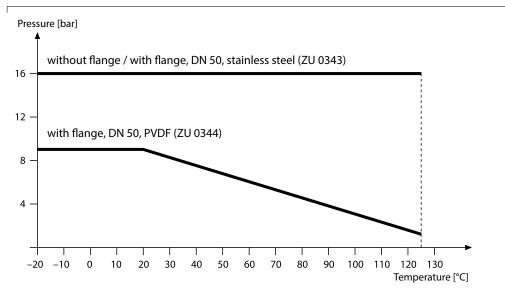
E-mail: sales@isweek.com



Product Range		Order No.
SE 656 conductivity sensor	G 3/4"	SE 656
SE 656X conductivity sensor	G 3/4"	SE 656X
Accessories		Order No.
Flange DN 50 PN 16	Material: 316 L	ZU 0343
Flange DN 50 PN 10	Material: PVDF	ZU 0344
Sealing set A (spare parts)	Nut + FKM (Viton) O-ring (3 x)	ZU 0340N
Sealing set C	PTFE washer, DN 50 (protects ZU 0343 flange against aggressive media)	ZU 0342N
Conductivity standard*)	KCI 0.1 mol/l 12.88 mS/cm ± 1.5 % 250 ml	ZU 0348

^{*)} Observe instructions for use (field conditions)

Pressure/Temperature Diagram



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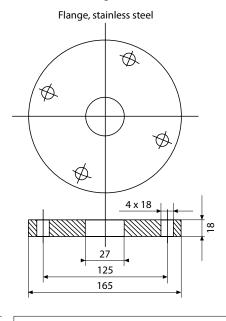
Accessories / Specifications

DN 50 PN 16

316 L flange ZU 0343

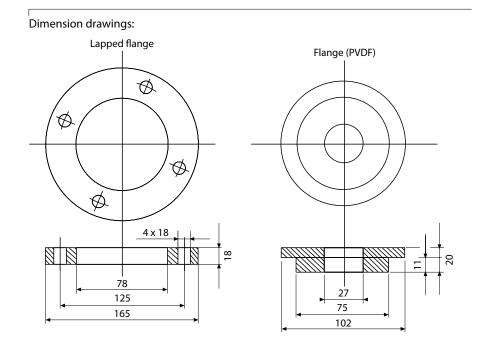


Dimension drawing:



PVDF flange ZU 0344 DN 50 PN 10





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Overview of Accessories and Assembly

