SE 680 Memosens Toroidal Conductivity Sensor

Hygienic sensor made of FDA-approved PEEK with an extremely large measuring range and steam-sterilizable.

Hygienic sensor made of FDA-approved PEEK with an extremely large measuring range and steam-sterilizable. The joint and gap free design and stain-resistant surface made of Virgin PEEK make the SE 680 a heavy-duty sensor. The inductive technology is not influenced by polarization and does not have any sensor surfaces subject to corrosion. Compact 2-electrode sensor with coaxial stainless-steel electrodes, integrated temperature detector and fixed cable.

Applications
Fresh water technology, dairy products, breweries, soft drink manufacturing, electro-plating, CIP monitoring in the beverage industry, pharmaceutical applications, cooling tower monitoring, monitoring concentrations of brine, alkalis and acids,
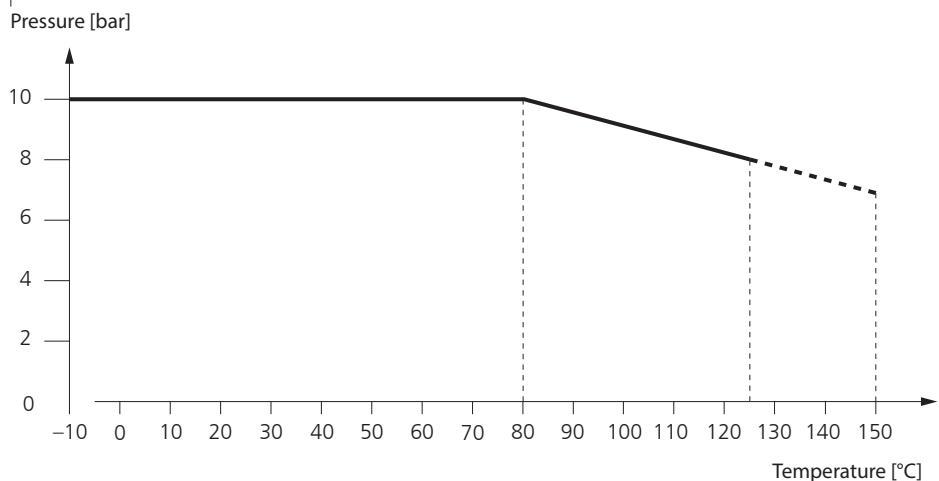
Facts
– Compact design
– Competitively priced
– Large measuring range
– Quick-reacting temperature detector
– Digital data transfer
– Completely molded surface
  Ra ≤ 0.4 µm
– Virgin PEEK, FDA-certified

Specifications

Cell factor:	Approx. 6.4 / cm
Measuring range:	Approx. 0.0002 to 2000 mS/cm
Material:	PEEK (FDA-certified)
Temperature detector:	Pt 1000
Response time:	T_{90} < 26 s
Temperature:	14 ... 257 °F(–10 ... 125 °C) (302 °F (150 °C) < 60 min.)
Pressure:	145 psi (10 bar) 176 °F (80 °C), 116 psi (8 bar) 257 °F (125 °C)
Process connections:	2" Tri-clamp, sensor for installation in ARF 210/215 or ARD 220
Electrical connection:	Memosens, M12, 4 pins
FM Approvals (US & C)	Cl. 1 Div. 1, GP ABCD T3/T4/T6

Pressure/Temperature Diagram

Pressure [bar]

Temperature [°C]

M4Knick ❯

Product Range   Order No.

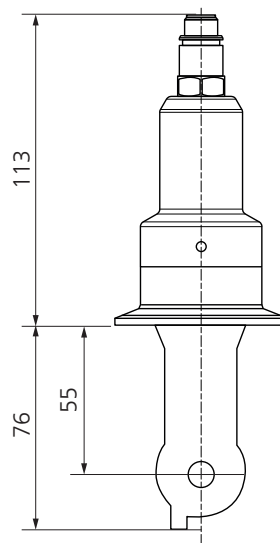| SE 680 conductivity sensor	Clamp 2″			**SE 680N-J2N4U00K**
	Clamp 2″		Memosens	**SE 680N-J2N4U00M**
	Clamp 2"	Intrinsically Safe	Memosens	**SE 680X-J2N4U00M**
	Sensor for installation in ARF 210/215 or ARD 220			**SE 680N-K8N4U00K**
	Sensor for installation in ARF 210/215 or ARD 220		Memosens	**SE 680N-K8N4U00M**
	Sensor for installation in ARF 210/215 or ARD 220	Intrinsically Safe	Memosens	**SE 680X-K8N4U00K**

Accessories   Order No.

Digital cable with M12 socket		5 m	**CA/M12-005NA**
		10 m	**CA/M12-010NA**
		20 m*)	**CA/M12-020NA**

Order No.

Conductivity standard	KCl	0.1 mol/l	12.88 mS/cm	± 1.5 %	250 ml	**ZU 0348**
Calibration Certificate						**ZU 0320**

*) Greater lengths on request (max. 100 m)

Dimensional Drawings

SE 680N-J2
Clamp 2"

113

76

55

All dimensions in mm