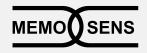
## **Sensors for Conductivity Measurement**





# **SE 604 Conductivity Sensor**

Robust 2-electrode sensor, for precise and reliable measurement of low and very low conductivities, particularly in ultrapure water. Available with digital Memosens technology.

Robust, coaxially arranged electrodes made of stainless steel. Large measuring range from ultrapure water to 1000  $\mu$ S/cm with only one sensor model (cell constant). Integrated temperature detector for exact temperature compensation. Easy to clean thanks to replaceable outer electrode. Reliable and easy checking of the measurement using PortaSim simulators.

#### **Applications**

Boiler feed water, feed water, boiler water, cooling water, water vapor cycle, pure water, condenser monitoring

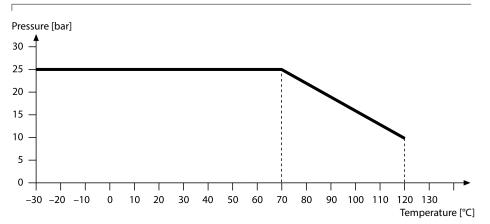
#### **Specifications**

#### Facts

- Large measuring range from 1 nS/cm to 1,000 µS/cm
- Coaxially arranged electrodes
- Independent of installation conditions
- Integrated temperature detector
- High level of process safety due to
- durable materials and robust design - Easy to clean thanks to detachable outer electrode
- Particularly suitable for monitoring ultrapure water in power plants
- Calibration Certificate
- Suitable PortaSim simulators

•			
Cell constant:	0.029/cm		
Measuring range:	0.001 1,000 μS/cm		
Material:	Cell and electrodes: 1.4571 stainless steel; insulator: PVDF gaskets: FKM (Viton)		
Temperature detector:	NTC 30 kohms, Pt 1000 Class A, T <sub>90</sub> < 2 min		
Temperature:	Medium: -22 248 °F (-30 120 °C); Environment: -13 176 °F (-25 80 °C)		
Pressure:	Max. 362 psi (25 bar) -22 158 °F(-30 70 °C) Max. 145 psi (10 bar) 248 °F (120 °C)		
Process adaptation:	G 1" thread		
Sensor cap:	Memosens or 7-pin		

#### **Pressure/Temperature Diagram**



## New England - ETA Process Instrumentation 119 Foster Street, Bldg #6 Peabody, MA 01960 Tel: (978) 532-1330 www.etapii.com sales@etapii.com

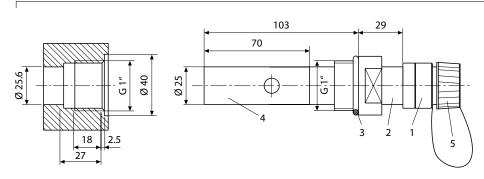
## Upstate NY - Martech Controls 2000 Teall Avenue

2000 Teall Avenue Syracuse, NY13026 Tel: (315) 876-9120 www.martechcontrols.com sales@martechcontrols.com

Product Range				Order No.
SE 604 conductivity sensor	Vario Pin		G 1"	SE 604
SE 604 conductivity sensor	Memosens		G 1"	SE 604-MS
SE 604 X conductivity sensor	Memosens		G 1"	SE 604X-MS
Accessories				Order No.
Measuring cable with plug	Sensor connection:	7-pin socket	1.5 m	ZU 0743
	Device connection:	ferrules	3 m	ZU 0645
	Temperature:	-20 +80 °C	5 m	ZU 0569
			10 m	ZU 0570
			15 m	ZU 0589
			20 m	ZU 0590
			30 m	ZU 0660
l Memosens cable			3 m	CA/MS-003NAA
			5 m	CA/MS-005NAA
			10 m	CA/MS-010NAA
			20 m*)	CA/MS-020NAA
Memosens cable, Ex			3 m	CA/MS-003XAA
			5 m	CA/MS-005XAA
			10 m	CA/MS-010XAA
			20 m*)	CA/MS-020XAA
6-hole flange				ZU 0278
Conductivity standard	KCI 300 ml	15 μS/cm ±1%		ZU 0350
	KCI 500 ml	147 μS/cm ± 1 %		ZU 0702
Calibration Certificate				ZU 0320
Conductivity simulator	PortaSim Cond A* <sup>)</sup>	0.055 μS/cm	25 °C	ZU 0308
(cell constant 0.029/cm (Details from page 86)	PortaSim Cond B*)	5 μS/cm	100 °C	ZU 0309

\*) Conductivity simulator; checking the meter and cable by simulating the sensor. High-precision comparison resistors, traced to NIST standard. Used for measurement to USP <645>. Check by simply replacing the sensor by the simulator

### **Dimensional Drawing**



1 7-pin sensor cap

2 Sensor body

3 O-ring (FKM, 30 x 4)

4 Detachable outer electrode

5 Protective cap

Installation conditions

All dimensions in mm