

SE 605 Conductivity/Resistivity Sensor



High Purity Water & Steam Condensate Applications

The SE 605 design provides high accuracy, stability, speed of response, and long life in applications containing high purity water or steam condensate. The user can mount this coaxial two-electrode sensor in virtually any orientation. The installation conditions do not affect the sensor.

The robust sensor design, along with the integration of Memosens technology, provide for a significant reduction in overall cost of ownership.

The SE 605 is suitable for use with any M4 Knick transmitter.

QUICK SPECS

Cell constant: 0.021/cm \pm 1%

Measuring Range: 0.04 ... 1000 μ S/cm

Accuracy: \pm 4% of measured value

Repeatability: 0.2% of measured value + 3 nS/cm

Temperature: 14 ... 248 °F (-10 ... 120 °C)

Pressure: 0 ... 362 psig (0 ... 25 bar)

Sensor Material: Cell and electrodes (316L Stainless Steel — electropolish available for hygienic applications), PEEK insulator

Process Connection: 1" NPT, 2" ANSI, available with hygienic connections

TYPICAL APPLICATIONS

- Steam Water Analysis Systems (SWAS):
 - Makeup Water
 - Condensate
 - Feedwater
 - Deaerator
 - Boiler water
- Reverse Osmosis
- Microfiltration/Ultrafiltration
- Ultra pure water (UPW) for semiconductor fabrication
- Water for injection (WIFI)

SE 605 SENSOR ANATOMY

SENSOR HEAD

Memosens Digital Sensing Technology

Memosens sensors provide several benefits with regard to ease of use and reduction of operating costs:

- Submersible inductive connection removes measurement influence from moisture and humidity that are commonly present in water and wastewater applications.
- Galvanically isolated so there is no measurement influence from noise or ground loops. This is especially beneficial in open basins when using plastic holders.
- Calibration and diagnostics can be performed in the shop or lab. This reduces field maintenance time and process down time.

ELECTRODE DESIGN

Coaxial, Two Electrode

Extremely low cell constant for high purity measurements. Removeable outer electrode for easy cleaning. 316L Stainless Steel with PEEK insulator



PROCESS CONNECTION

Options to fit your application

1" NPT 2" ANSI flange standard
Other connections, including hygienic options,
available upon request

VENT

Removes air pockets

Vent allows for sensor to remain full
and at equilibrium with the measured fluid