

SE 655 Memosens Conductivity Sensor **M4Knick**

Toroidal Conductivity Sensor for Liquids with Suspended Solids

The SE 655 Memosens toroidal conductivity sensor is ideal for measurements in liquids with suspended solids and high conductivities. This corrosion resistant sensor is constructed of PEEK in a smooth, easy-to-clean design and comes with an integrated 3m cable. The SE 655 is highly accurate and has a low risk of contamination because of a large sensor opening.

The robust sensor design and construction, along with the integration of Memosens technology, provide for enhanced performance and a significant reduction in maintenance.

The SE 655 is suitable for use with any M4 Knick transmitter and the Portavo 908 Multi portable meter.

QUICK SPECS

Range: 0.001 ... 2000 mS/cm

Temperature: -4 ... 230 °F (-20 ... 110 °C)

Pressure: 0 ... 290 psi (0 ... 20 bar)

Sensor Material: Cell: PEEK; Gasket: Viton (other materials on request)

Protection: IP 67 (when mounted)

TYPICAL APPLICATIONS

- Concentration measurement of acid & alkaline solutions
- Oily and coating media
- Cooling water blowdown
- Heavily polluted media
- Wastewater
- Brine

SE 655 CONDUCTIVITY SENSOR ANATOMY

SENSOR HEAD — WITH INTEGRATED CABLE

Memosens Digital Sensing Technology

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

- Removes measurement influence from moisture and humidity that are commonly present in industrial applications.
- Galvanically isolated so there is no measurement influence from electrical noise or ground loops.
- Calibration and diagnostics can be performed in the shop or lab. This reduces field maintenance time and process down time.

SENSING ELEMENT

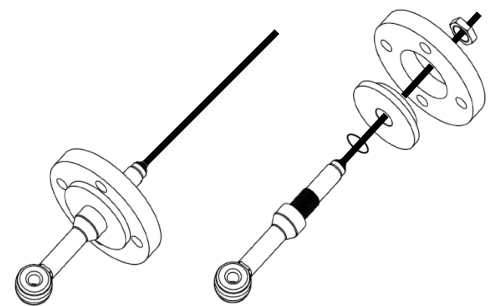
Inductive/ Toroidal Conductivity

The electrodeless design prevents any measurement effects due to polarization. The sensing element delivers repeatable, accurate measurements even in highly polluted liquids with a tendency to form buildup.

SENSOR MOUNTING

Threaded Lock-Nut

The threaded connection enables easy mounting into an immersion style holder. The lock-nut configuration allows for connection to a variety of flange materials and sizes.



SENSOR MATERIAL

PEEK

PEEK has excellent mechanical and chemical resistance properties that are retained under high temperatures. It is highly resistant to thermal degradation, as well as attacks in both organic and aqueous environments.

