

## High Purity Conductivity Sensor (Mettler-Toledo Thornton 230- & 240-series)

The conductivity sensor and instrument for high purity water measurements shall provide measurement over a range from ultrapure water to over 1500  $\mu\text{S}/\text{cm}$  with accuracy across that range of  $\pm 1\%$ , to allow verification and calibration in ASTM standard solutions.

Temperature measurement in the sensor shall use an IEC 746 Class A Pt1000 resistance temperature detector with accuracy better than  $\pm 0.15\text{ }^\circ\text{C}$  at  $25\text{ }^\circ\text{C}$  to enable accurate compensation. The sensor shall be ISO9001 factory calibrated and certified with traceability to ASTM conductivity standard solutions and to NIST temperature standards.

The sensor shall have titanium electrodes for reliable measurement and excellent chemical resistance to acidic cleaning agents. It shall have a nominal cell constant of  $0.1\text{ cm}^{-1}$  to provide wide enough electrode spacing that deionization resin beads or corrosion products in power plant samples will flow through and out of the sensor and not be trapped between the electrodes.

The conductivity sensor shall be Mettler-Toledo Thornton model 230-series for 770MAX Transmitters or model 240- Sensor for M300 Transmitters.

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EN0115 7/08

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