

Blind Toroidal Conductivity Monitoring System

Conductivity Monitors shall be supplied for continuous monitoring of conductivity in __ (Specify Application and Location) __. The conductivity monitoring system shall consist of a loop-powered electronic monitor, without a local display, housed in a NEMA 4X enclosure suitable for wall, pipe, or panel mounting, a toroidal-style conductivity sensor, and accessories listed below. The Conductivity Monitoring System shall be ATI Series Q40CT as described below.

The conductivity sensor shall be a toroidal-style design capable of a measuring range of 500 to 2,000,000 microSiemens with the same cell. The sensor jacket shall be constructed of polypropylene, Kynar (PVDF), or PEEK (poly-ether-ether-ketone).

The sensor shall have a rear 3/4" NPT thread to facilitate submersion/tank mounting. The sensor cable shall be encapsulated in the sensor body.

The sensor shall be keyed to fit an adapter that ensures proper sensor orientation when mounted in an optional tee fitting.

The sensor shall include a Pt1000 RTD for high accuracy temperature measurements.

The sensor shall include a chemical-resistant jacketed cable. The sensor cable shall contain three foil shields for optimum electrical performance.

The conductivity Monitor electronic assembly shall be a loop-powered 2-wire instrument providing an isolated 4-20 mA output proportional to conductivity into a maximum load of 500 ohms.

The complete Conductivity Monitor shall be an Analytical Technology Inc. Model Q40CT, or approved equivalent.
