

SensoPro Toroidal Conductivity Monitoring System

Sensorex is at WEFTEC! Booth 3300.



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The new Modbus-equipped EX2000RS transmitter paired with the TCS3020 sensor provides a complete solution for conductivity and concentration monitoring.

Garden Grove, California – Controlling conductivity is a necessity in online water quality and process applications to prevent scaling and corrosion, reduce excessive water usage, and optimize processes. The Sensorex SensoPro Toroidal Conductivity Monitoring System provides a complete solution for conductivity and concentration monitoring. The rugged Noryl-body TCS3020 probe reliably measures conductivity in the harshest of environments, and the new EX2000RS transmitter features Modbus communication for robust system integration. This system is appropriate for applications like cooling tower water control, wastewater treatment, brine analysis, desalination, chemical processing, and other circumstances involving high conductivity or harsh environments.



The SensoPro Toroidal Conductivity Monitoring System, a toroidal conductivity sensor and transmitter package, monitors conductivity to prevent scaling and corrosion, reduce excessive water usage, and optimize processes.

Toroidal conductivity sensors like the TCS3020 consist of two toroidal coils inside an inert plastic case. One toroid emits an electric field, and the other detects a small induced electric current proportional to the number of ions present. The two toroids form a transformer whose coils are interconnected by the resistance of the surrounding electrolytic solution. In contrast to traditional contacting conductivity sensors, toroidal conductivity sensors do not cause polarization, do not become fouled, and rarely require maintenance. Reduced maintenance needs and increased reliability make toroidal conductivity sensors more cost-effective than contacting sensors over time.

The EX2000RS is the Modbus-equipped toroidal conductivity transmitter compatible with the TCS3020 probe. The unit includes one analog output and can monitor conductivity, percent concentration, total dissolved solids (TDS), and salinity. The RS-485 serial interface with Modbus RTU or ASCII protocol provides robust system integration. The graphical display allows you to visualize up to four weeks of historical measured values or see how your measurements are trending in real-time. The EX2000RS has a small form factor, an IP65/Nema4X case, weighs just 1.1 pounds, and can be wall or panel mounted.

Sensorex's SensoPro Toroidal Conductivity Monitoring System is backed by a one year limited warranty. This system as a whole features a conductivity measuring range of 0.0 $\mu\text{S}/\text{cm}$ -2000 mS/cm, percent concentration measurements for NaCl, HCl, HNO₃, NaOH, H₂SO₄, H₃PO₄, and automatic or manual temperature control. The result is a reliable conductivity and concentration monitoring system, in one simple package, available for purchase as of September 29, 2017 on the Sensorex webstore.