

PUR-Sense Sensors

Pharmaceutical and Food & Beverage solutions



PUR-Sense™ SENSORS – WHEN PURITY MATTERS MOST

The Pure Choice

The PUR-Sense™ line of sensors was designed for the highly-regulated Life Sciences and Food & Beverage industries and their inherently stringent requirements. Hygienic concerns and material compatibility are always important when selecting the best measurement devices. Material traceability to an approved third party and material certifications also factor into the equation. PUR-Sense is made with those requirements in mind.

Significant process optimization, improved cycle time, repeatability, as well as quality and yield improvements can be realized when the proper sensors and instruments are utilized. Fit for purpose pH and Conductivity sensors play critical roles in the operation's control strategy. Choose PUR-Sense when you have a requirement for sanitary sensors fit for your purpose – exclusively from Emerson.



225 CIP Toroidal Conductivity Sensor

The Rosemount Analytical Model 225 Toroidal Conductivity Sensor is designed for pharmaceutical and food and beverage applications where a sanitary design is required. Ideal for measuring CIP solutions, detecting water/product interfaces, checking product quality and monitoring eluents used in chromatographic separations.

- > Meets 3A standards.
- > Works well in highly conductive liquids.
- > USP Class VI PEEK available.
- > Easy in-line installation using 2-inch Tri-Clamp fitting.
- > Resists corrosion and fouling.



Model 245 Flow-Through Toroidal Conductivity Sensor

Rosemount Analytical Model 245 Flow-Through Toroidal Conductivity Sensors are ideal for installations with small line sizes. Designed for chromatography and purification applications.

- > Flow-through sensor, nothing protrudes into process piping to obstruct flow.
- > Available in 0.5-inch, 1-inch, 1.5-inch, or 2-inch triclamp sizes.
- > Wetted materials are compliant with 21 CFR 177.
- > Suitable for use in viscous, abrasive, or fibrous process liquids.



Model HX438 Dissolved Oxygen Sensor

Model HX438 Rebuildable Steam Sterilizable Dissolved Oxygen Sensor provides a drift-free signal. Ideal for bioreactors; cell cultures and fermentation applications; chromatography and purification.

- > Withstands up to 50 steam sterilization cycles.
- > FDA compliant with material traceability.
- > Better than 16 micro-inch Ra surface finish.
- > Easy to rebuild cathode design maximizes up time.



Model 403
Conductivity Sensor

ENDURANCE Model 403 and 403VP two-electrode conductivity sensors measure electrolytic conductivity in water-for-injection (WFI) and are also used in water purification systems in the food and beverage industry.

- > Initial calibration not required. Predetermined cell constant ensures out-of-the-box accuracy.
- > Designed to meet USP Section <645> requirements in water for injection.
- > All wetted surfaces have 16 micro-inch (0.4 micrometer) Ra finish.
- > All wetted plastics and elastomers are compliant with 21 CFR 177.
- > Certificate of conformance supplied with each sensor.



Model 410 Conductivity Sensor

The Model 410VP is a four-electrode conductivity sensor. Typical applications include monitoring the concentration of CIP solutions and rinses, monitoring eluents in chromatographic separations, and detecting liquid interfaces.

- > Wide operating range: 1 $\mu\text{S}/\text{cm}$ to 1,400,000 $\mu\text{S}/\text{cm}$.
- > Initial calibration not required. Factory determined cell constant ensures maximum accuracy.
- > Wetted surfaces have a 16 micro-inch (0.4 micrometer) Ra finish.
- > Sensor body and elastomers are compliant with 21 CFR 177.
- > Available in 1.5-inch and 2-inch Triclamp, Varivent Type N, and G -1.25-inch process connections.
- > Certificate of conformance supplied with each sensor.



Model 3800 pH Sensor

The NEW model 3800 series pH sensors are designed for accuracy and stability and exhibit unparalleled stability after exposure to high temperature sterilization cycles. Optimized for use in buffers, media prep, bioreactors, cell culture, fermentation and purification.

- > The 3800 series is available in three different insertion lengths; 120mm, 225mm and 325mm.
- > The 3800VP has a PT100 ohm RTD mounted inside the pH glass stem for automatic temperature compensation.
- > Drift Free Reference technology
- > Sterilizations up to 140°C.
- > Fast, Accurate and Improved Stability – ensures fast and accurate long life in actual process conditions.
- > Individual Quality Certification lists materials of construction for each sensor.



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