PUR-Sense Sensors
Pharmaceutical and Food & Beverage solutions
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.

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.

The 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 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.
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

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.

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 µS/cm to 1,400,000 µS/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.

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.
MORE ANALYTICAL SOLUTIONS FROM EMERSON PROCESS MANAGEMENT

Emerson is the world's largest provider of gas chromatography, process gas, combustion and environmental analysis solutions.

GAS CHROMATOGRAPHY SOLUTIONS
Rosemount Analytical gas chromatographs are the world leaders in process gas measurement, separating process gas into identifiable components. Our family of chromatographs has a worldwide reputation for accuracy, repeatability, and dependability.

Call 866.422.3683, or see us on the web at www.raihome.com

PROCESS GAS AND COMBUSTION SOLUTIONS
Emerson is the world's premier supplier of combustion analysis, process analysis and environmental monitoring solutions. With more than 80 years of experience, we go way beyond simple data collection and offer provable analytical solutions, advanced Rosemount Analytical® instrumentation and the professionals who really know how to keep you up and running efficiently, safely and economically.

Call 800.433.6076, or see us on the web at www.raihome.com

Emerson's Rosemount Analytical Liquid Division provides technologies and services for the analysis of liquid processes. For a wide range of applications, Emerson provides more than 60 years of expertise in high-precision analytical sensors, instrumentation and services. For information, call 800.854.8257.

Emerson Process Management, Rosemount Analytical, ENDURANCE and PUR-Sense are marks of Emerson Process Management group of companies. All other marks are the property of their respective owners.

The contents of this publication are presented for informational purposes only, and while every effort has been made to ensure its accuracy, they are not to be construed as warranties or guarantees, expressed or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which are available on request. We reserve the right to modify or improve the designs or specifications of such products at any time without notice.

© Rosemount Analytical Inc. 2008. All rights reserved. Printed in the U.S.A.