Thermo Scientific
Drinking Water Analysis Products

Regulatory compliance testing **made easy**

Thermo Scientific products for drinking water quality and security

Thermo SCIENTIFIC

Drinking Water Analysis

Municipal Drinking Water Treatment

Millions of Americans depend on public and private systems for their high quality drinking water. In fact, there are more than 160,000 public water systems alone that reliably meet the needs of the country every day.

Drinking water safety is clearly a critical priority. Yet the number of threats to water safety continues to grow daily, and include animal and human waste, improper disposal of chemicals, pesticides, and deep earth injection of hazardous materials. Contamination is also a threat due to improper water treatment and disinfection procedures, as well as from poorly maintained water distribution systems.

The U.S. Environmental Protection Agency, through the Safe Drinking Water Act, has established national health-based standards that address both man-made and naturally occurring contamination. Compliance requires consistent, accurate measurement of water parameters performed in the lab, field and on-line. While many measurements can be made in the lab, key variables such as pH, conductivity, fluoride and chlorine can also be measured on-line in real-time to warn immediately if limits are exceeded.

Featured **Thermo Scientific** Products

AquaSensors AquaClear Low-Range Turbidimeter

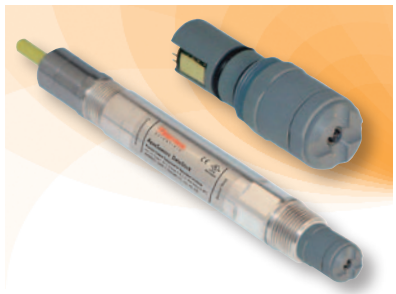
Delivers highly accurate turbidity measurements in drinking water applications.

- Simple to operate
- Meets or exceeds USEPA method 180.1
- Pre-calibrated measurement
- Plug & play sensor heads
- Seamless integration with industrial control systems

AquaSensors AquaChlor Free Chlorine Sensor & Monitoring System

Accurately measures chlorine between 4 and 9 pH in clean water processes.

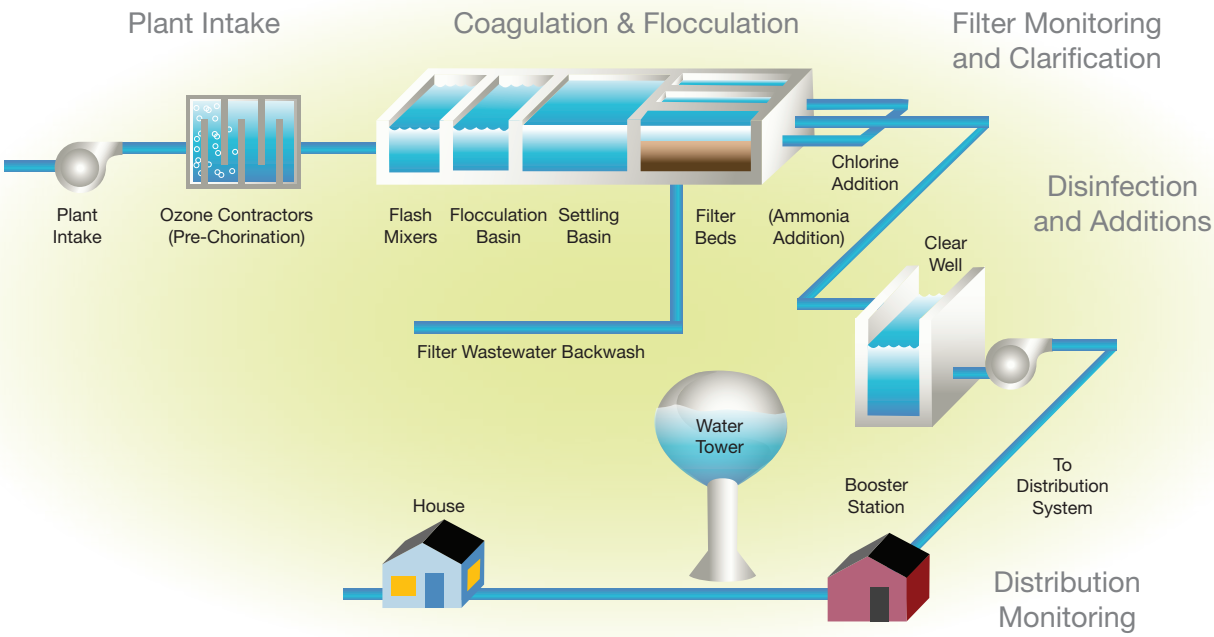
- Reagent-free amperometric design
- Compliant with EPA Method 334.0 for online drinking water monitoring
- Manual or Automatic pH compensation
- Temperature compensated
- Convenient turn-key monitoring system for optimal performance



AquaSensors DataStick pH Measurement System

Built-in electronics are encapsulated and sealed, and protected from moisture and humidity; seamless integration with industrial control systems.

- Differential pH measurement
- Plug-n-play sensor heads
- Pre-calibrated sensor (no field calibration)
- Replaceable quad junction salt bridges



Thermo Scientific™ Products for Drinking Water Treatment:

Plant Intake	Coagulation & Flocculation	Filter Monitoring & Clarification	Disinfection & Additions	Distribution Monitoring
• AquaSensors™ DataStick™ pH Measurement System • AquaSensors™ AnalogPlus™ Differential pH Sensors • Alpha™ pH Sensors • AquaSensors DataStick Wide-Range Turbidity Measurement System • AquaSensors™ AquaChlor™ Free Chlorine Measurement System • Orion™ Chlorine XP™ Water Quality Analyzer • Orion™ Star™ A Benchtop and Portable Laboratory Meters • Orion™ AquaMate™ UV-Vis Benchtop Spectrophotometers	• Orion™ pHR Process ROSS™ Electrode • AquaSensors DataStick pH Measurement System • AquaSensors AnalogPlus Differential pH Sensors • Alpha pH Sensors • AquaSensors DataStick Wide-Range Turbidity Measurement System • Orion Star A Benchtop and Portable Laboratory Meters	• AquaSensors™ AquaClear™ Low-Range Turbidimeter • Orion pHR Process ROSS Electrode • AquaSensors DataStick pH Measurement System • AquaSensors AnalogPlus Differential pH Sensors • Alpha pH Sensors • AquaSensors DataStick Wide-Range Turbidity Measurement System • AQUAfast™ AQ4500 Turbidity Meter	• AquaSensors AquaChlor Free Chlorine Monitoring System • Orion Chlorine XP Water Quality Analyzer • Orion 2109XP Fluoride Analyzer • AquaSensors DataStick Dissolved Ozone Measurement System • Orion Star A Benchtop and Portable Laboratory Meters • Orion AquaMate UV-Vis Benchtop Spectrophotometers • AQUAfast AQ3700 and AQ3070 Colorimeters	• AquaSensors AquaChlor Free Chlorine Monitoring System • Orion Chlorine XP Water Quality Analyzer • Orion Star A Portable Laboratory Meters • AQUAfast AQ4500 Turbidity Meter • AQUAfast AQ3700 and AQ3070 Colorimeters

Orion pHR Process ROSS Electrode

Fast, accurate, drift-free pH measurements in online applications. Minimal maintenance and long-term reliability provide low cost of ownership.

- Unique ROSS drift-free reference system provides long lifetime
- Accurate and reproducible results
- Double junction design prevents contamination
- Exceptional pH response to extreme temperature changes

Orion Chlorine XP Online Water Quality Analyzer

Measures free, total & total combined chlorine with a colorimeter.

- Easy installation & operation
- Auto calibration & auto self-cleaning
- Longer maintenance intervals compared to other DPD analyzers
- Simple, quick reagent replacement

Orion 2109XP Flouride Analyzer

Provides the highest quality fluoride measurements for drinking water required by the Safe Drinking Water Act to accurately control fluoride levels between 1.4 and 2.4 ppm.

- Implements recognized EPA method for fluoride analysis using an ion selective electrode (ISE)
- Eliminates problems with turbidity and suspended solids in samples
- Correlates to online IC for QA/QC validation

For complete product details visit our online interactive catalog at **thermoscientific.com/watercatalog**

Leaders in Sensing Technology

From supplying safe drinking water or reliably controlling wastewater treatment processing to delivering significant value to industrial water treatment providers – our water experts can help you meet your application challenges. Thermo Scientific™ process water analysis measurement products are designed for flexibility, ease of use, and low cost of operation in water treatment, delivering accuracy you can trust with confidence year after year. Select from our digital plug-and-play systems, advanced optical DO sensors, and a broad portfolio of differential and analog measurement capabilities to build virtually any water quality solution.

Thermo Scientific Process Water Products Catalog

For more process product details, view our interactive catalog now!

To find out more about the products in this brochure and other Thermo Scientific products, please visit thermoscientific.com/processwater

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