



April 2025

# NEWSLETTER

*Ametek Thermox & Western Research - Draeger - KROHNE - Perma Pure - Process Insights*



## WDG-V HP Series Combustion Analyzer

Close-coupled convective flue gas analyzer for high-particulate processes

### KEY BENEFITS

- Designed for high-particulate processes
- Ultra-accurate measurement of O<sub>2</sub> with industry-proven zirconium oxide sensor
- Suitable for flue gases up to 1537°C (2800°F)
- Digital communications via Modbus and Ethernet
- Completely field-serviceable

### APPLICATIONS

- Rotary kilns
- Power boilers
- Recovery boilers
- Multiple hearth furnaces

### KEY MARKETS

- Cement and lime
- Sludge incineration
- Pulp and paper

[Read More: Ametek Thermox Oxygen and Combustibles Measurement Instruments](#)

## Enhance Your Process Control with Ametek Western Research Analyzers



## Discover Ametek Western Research Solutions for Precise Gas & Liquid Analysis

Ametek Western Research provides cutting-edge on-line process analyzers for real-time gas and liquid composition analysis in various industrial applications. Whether you need purity analysis, blending control, reaction monitoring, or environmental compliance, our advanced analyzers ensure optimal performance and regulatory adherence.

### Featured Products:

- ✓ **Chemical Composition Analyzers** – Single & multi-component gas/liquid analysis
- ✓ **Chlorine Dioxide & Vent Gas Analyzers** – For critical industrial monitoring
- ✓ **Color Monitors** – Integrated photometric spectrometer for quality control
- ✓ **Acid Gas Analyzers** – Accurate SO<sub>2</sub>, H<sub>2</sub>S, CO<sub>2</sub> detection for safety & compliance
- ✓ **Hydrocarbon Dew Point Analyzers** – Essential for natural gas processing
- ✓ **Hydrogen Sulfide Analyzers** – Explosion-proof solutions for sour & sweet gas monitoring
- ✓ **Sulfur Recovery Unit (SRU) Analyzers** – Optimized for acid feed gas, tail gas, and stack emissions

Ensure precision, safety, and efficiency in your operations with Ametek Western Research.

[Read More](#)



In their latest technical note, Draeger provides detailed specifications and performance characteristics of the DrägerSensor® MEC H<sub>2</sub>, an electrochemical sensor designed for monitoring hydrogen (H<sub>2</sub>) concentrations in ambient air.

#### Key Highlights:

**Function:** Detects and quantifies hydrogen gas using electrochemical diffusion technology.

**Measurement Range:** 0 to 40,000 ppm

**Accuracy & Sensitivity:** Repeatability within  $\pm 2\%$  of the measured value.

**Response Time:** Within  $\leq 15$  sec at high gas exposure and  $\leq 25$  sec at moderate levels.

**Operational Conditions:** Works in temperatures from  $-20^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$  and humidity levels between 10% and 90%.

**Cross Sensitivities:** Minimal interference from gases like CO, H<sub>2</sub>S, NO, while others (NH<sub>3</sub>, Cl<sub>2</sub>, CO<sub>2</sub>, CH<sub>4</sub>) have no effect.

[Read More: Monitoring 0-100% hydrogen with an electrochemical sensor](#)



GT5000 Terra, the world's smallest, portable and splash proof multi-gas FTIR analyzer. Capable of measuring up to 50 gases simultaneously, with constant monitoring, online.

GT5000 Terra is full of features, in a tiny but robust package. A high sensitivity sample cell for lowest possible detection limits, multi-component capability and a built-in-pump, so no need for a separate sampling system. This portable gas analyzer is also lightweight (9.4 kg), splash proof (IP54 rated) and battery-powered providing unmatched portability for such a powerful analyzer. Designed for demanding on-field use, the GT5000 is the perfect tool for a wide variety of applications and uses cases.

#### Key Advantages

Portable and quick set-up

Battery operation

Wireless communication

Simultaneous measurement of all gases

Splash proof, IP54 rated

[Read More](#)



## Precision Level Measurement with KROHNE Radar Transmitters

Achieve unmatched accuracy and reliability in level measurement with KROHNE's FMCW radar level transmitters. Designed for continuous, non-contact monitoring of liquids, pastes, powders, and solids, these transmitters provide optimal performance across industries such as chemical, oil & gas, power generation, food & beverage, and water treatment. The OPTIWAVE series offers frequency options from 6 GHz to 80 GHz, ensuring precise measurement in even the most challenging applications. With high accuracy ( $\pm 2$  mm), quick setup, and interference elimination technology, KROHNE radar transmitters are the ideal solution for process efficiency and safety.

[Read More: KROHNE Level Measurement](#)



The new KR OPTIWAVE 15x0 Series introduces numerous opportunities across various industries. This series efficiently addresses basic-level applications for liquid and solid materials with cost-effective 80GHz radar technology. To enhance the user experience, a short video (under 4 minutes) has been created to guide users through the quick setup process. The video demonstrates how simple it is to get the OPTIWAVE 15x0 Series up and running.



## Gas Sample Dryers & Gas Humidifiers

## Optimize Your Gas Analysis with Perma Pure's Advanced Drying and Humidification Solutions

**Enhance Accuracy and Efficiency in Gas Sampling** | Perma Pure offers cutting-edge gas sample dryers and gas humidifiers designed to improve the precision and reliability of your gas analysis processes.

**Gas Sample Dryers:** Utilizing proprietary Nafion™ tubing, these dryers selectively remove water vapor from gas samples without affecting analytes, ensuring accurate measurements and reducing maintenance needs. Ideal for applications such as ambient air monitoring and laboratory analysis, they provide superior moisture removal compared to conventional methods.

**Gas Humidifiers:** Powered by Nafion™ tubing, Perma Pure's humidifiers precisely add water vapor to gas streams, maintaining optimal humidity levels essential for processes like gas blending and calibrating analytical instruments. Features include self-limiting humidification, compact design, and suitability for use with hydrogen.

[Read More](#)



### Reliable & Cost-Effective Calibration Gases from iFacility Services

Ensure precise and reliable gas detection with iFacility Services' high-quality calibration gases and accessories. We offer NIST-traceable disposable and refillable calibration gas cylinders, available as single gases or custom mixtures, at a lower cost than other suppliers. Our selection includes zero air, multigas for confined space meters, ammonia, carbon dioxide, methane, oxygen, and more, meeting the needs of various industries. Pair your calibration gas with our fixed flow, multi-flow, and demand flow regulators, along with essential accessories like sampling hoses, fittings, and carry cases. Trust iFacility Services for accuracy, affordability, and convenience in your calibration needs!

[Read More: iFacility Calibration Service](#)

[Shop: eSafety Calibration Gases & Regulators](#)

The logo for Tiger Optics features the word "Tiger" in a bold, orange, sans-serif font, followed by "Optics" in a bold, black, sans-serif font. A stylized orange and black circular graphic, resembling a tiger's eye or a lens, is positioned between the two words.

**Tiger Optics**, a Process Insights brand, offers advanced Cavity Ring-Down Spectroscopy (CRDS) analyzers renowned for their

The logo for Guided Wave features a red circular graphic with a white stylized wave or signal line inside, followed by the words "Guided Wave" in a bold, red, sans-serif font.

**Guided Wave**, a Process Insights brand, specializes in advanced optical measurement solutions for industrial process monitoring.

precision in detecting moisture and impurities across various gases, including inert, reactive, corrosive, and specialty gases. Their product lineup features the Spark series, which balances high detection performance with cost-efficiency, making it ideal for process monitoring applications. These analyzers are widely utilized in industries such as semiconductor manufacturing, pharmaceuticals, and chemical processing, providing real-time, reliable measurements to ensure product quality and process efficiency.

[Read More](#)

Their comprehensive product line includes fiber optic-based Near Infrared (NIR) and Ultraviolet/Visible (UV-VIS) spectroscopic analyzers, optical insertion probes, flow cells, photometers, fiber optic cables, sampling systems, and data analysis software. These systems are designed for continuous online use, providing real-time, laboratory-quality data across various industries. Guided Wave's commitment to delivering optically matched components ensures high throughput efficiency and long-term performance, making them a trusted partner in process analytics.

[Read More](#)



Regular maintenance helps extend the life of your equipment, prevents unexpected failures, and ensures optimal performance. Our trained technicians thoroughly inspect, clean, and test each unit to be sure it meets manufacturer standards. If any issues are found, we provide necessary repairs or replacements to keep your gear safe and functional. Respirator service can be performed at customer sites throughout the New England, or at our calibration lab in Peabody, MA. We provide full documentation for record-keeping and OSHA compliance, giving you peace of mind that your equipment is properly maintained and your workplace remains safe.

**Contact us** today to schedule your respirator maintenance to ensure, above all, that your team stays protected.



OSHA Summer Summit Event  
by OSHA Training Institute Education Center  
Region 1

Wed, Jun 4, 2025 | 8:00 AM - 4:00 PM  
300 Massachusetts Ave  
Amherst, MA, 01002  
[www.oshaedne.com](http://www.oshaedne.com)

OSHA Training Institute Education Center provides innovative and effective safety and health training to improve safety culture and performance in the workplace.



