

Solutions for the Life Science & Pharmaceutical Industries

Real-Time and Fixed Point Solutions for Gas and Water Applications



Applications:

- · Fermenter off-gas composition analysis
- · Fast and accurate analysis for control parameters such as Respiratory Quotient (RQ) and fermentation endpoint
- · Continuous monitoring to improve yield, quality and reduce waste
- Single species or multi-component analysis (e.g. CO₂, O₂, N₂, Ar, H₂O, CO, H₂, He, hydrocarbons, alcohols, aldehydes, sulfurs, etc.)







MAX300-BIO Real-Time, Multi-Stream, Industrial Mass Spectrometer for Bioreactor Control



MAX300-LG Benchtop Mass Spectrometer for Real-Time, Multi-Stream, Bioreactor Control



Spark CRDS Single Species Trace Gas Analyzer for PPB-Level of H₂O, CH₄, CO and CO₂ Detection

Solvent Drying & Endpoint Determination

Applications:

- · Accurate endpoint determination to improve product yield, production efficiency and minimize waste
- Easy configuration for stream switching to multiple chambers
- · Optimized sampling for ambient pressures, vacuum drying and
- Trace moisture analysis and multi-species analysis of isopropanol, alcohols, methylene chloride, acetone, ethyl acetate, etc.

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MAX300-BIO

Real-Time, Multi-Stream, Industrial Mass Spectrometer for Solvent Drying and Endpoint Determination



MAX300-LG Benchtop Mass Spectrometer for Real-Time, Multi-stream, Solvent Drying and Endpoint Determination



HALO RP/QRP CRDS Trace-Level Low-Pressure Moisture Analyzer for Lyophilization

Evolved Gas Analysis

Applications:

- · Connects to thermal gravimetric analyzers (TGA) for off-gas
- · Quality control in reaction monitoring, natural product analysis and synthesis studies
- Microreactor off-gas and headspace analysis
- Single species or multi-component analysis (e.g. CO₂, O₂, N₂, Ar, H₂O, CO, H_a, He, hydrocarbons, alcohols, aldehydes, sulfurs, etc.)

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MAX300-EGA

Benchtop Mass Spectrometer with Heated Evolved Gas Inlet for Real-Time, Continuous **Process Control**

Tige Optics



HALO RP/QRP **CRDS Trace-Level** Low-Pressure Moisture Analyzer



T-I Max **Ambient Pressure** Analyzer for Trace HCI, NH₃, HF, CO and CH₄



Spark CRDS Trace Gas Analyzer for PPB-Level of H₂O, CH₄, CO and CO₂ Detection

Glove Box Monitoring



Applications:

- · Real-time, in situ glove box and incubation monitoring
- Ideal for vessel and climatic chamber monitoring/ and validation
- PPB to 100% H₂O and O₂ (aerobic and anaerobic activity), relative humidity and dew point, temperature and compositional gas analysis

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MAX300-CAT

Benchtop Real-Time PPB-Level to 100% Catalysis, Reaction Monitoring, and Environmental Research



MAX300-LG

Benchtop Mass Spectrometer for Real-Time PPB-Level to 100% Compositional Analysis of Glovebox Gases



Spark CRDS

Trace Gas Analyzer for PPB-Level Detection of H₂O, CH₄, CO and CO₂ Detection





Series 3520 | Oxy-Sen Portable and Fixed Trace to Percent Oxygen Monitors

ENTAUR



XDT | XPDM /|LPDT Models Aluminum Oxide Dew Point Meters with Hyper-Thin-Film Technology





473-SH2 Model Chilled Mirror Dew Point Hygrometer with Measuring Head for Temperature and RH Measurements

Facility, Safety and Compliance

Applications:

- Oxygen safety monitoring
- Quality of process gas supplies (CDA, N₂, CO₂, etc.)
- Online and/or remote moisture sensor calibration and control
- PPB to 100% moisture; 0-25% O₂





Series 1300 Oxygen Deficiency Monitors

OSAXENTAUR



XDT | XPDM /|LPDT Models Portable/Fixed/Loop-Powered Aluminum Oxide Dew Point Meters with Hyper-Thin-Film Technology

MBW calibration



373 Model Chilled Mirror **Dew Point Hygrometer**



Applications:

- On-line water quality analysis for total organic carbon (TOC), chemical oxygen demand (COD), biological oxygen demand (BOD)
- · Water influent and effluent discharge control for environmental compliance
- Water for injection (WFI)
- · Monitor return/boiler water quality to prevent system corrosion





QuickTOCultra TOC Water Analyzer for Harsh Wastewater Applications



QuickTOCuvII TOC Water Analyzer for **Pure Water Applications**



QuickTOCpurity TOC Water Analyzer for Pure and Process Water Applications



QuickCODLab COD-Water Analyzer for Laboratories

OUR PREMIUM GLOBAL BRANDS







MBW calibration







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