

Analytical Product Lines for Environmental/Process

Rosemount Analytical, Inc.

- Liquid Division** - Liquid Analysis
 - Continuous On-line Analyzers for pH/ORP, Conductivity, Resistivity, % Concentration, Turbidity, Total & Free Chlorine, Dissolved Oxygen, Dissolved Ozone, & Select Ion - Ammonium and/or Fluoride
 - Wireless pH and Conductivity Instruments

- Process Analytic Division** - Gas Analysis/CEMS
 - Continuous Analyzers - Single/Multicomponent X-Stream Series NO_x, CO, CO₂, SO₂, O₂, THC, H₂, VOC, NH₃, & other gases, General Purpose or Ex-proof
 - Continuous Emissions Monitoring Systems, Stand-Alone Cabinets, Shelters, & Modular Systems

- Net Safety Monitoring**
 - Toxic and Combustible Gas Detection Transmitters and Systems; IR or Catalytic LEL, Electrochemical for O₂ and Toxic Gases
 - Stand-alone Alarm Stations and Systems

- Emerson Chromatographs** - GC Systems
 - Multicomponent Model 700XA Process Gas Chromatograph Transmitter for Process and Ambient Monitoring, field mount (no shelter needed)
 - Model 500 Process Gas Chromatograph for most trace and % level Hydrocarbon processing, liquid and gas
 - Model 1000A Process Gas Chromatograph for select trace levels and/or up to 300°F (150°C)

EnviroNics USA

- Ion Mobility Spectrometry (IMS) Industrial Air and Gas Monitors/ Analyzers (PPB and PPM) for Ambient Air, Stack Gas or Process Gases to include:
 - NH₃, Cl₂, HCl, ClO₂, HF, ETO, NH₃, Cl₂, HCl, ClO₂, HF, CH₃I, CH₃Br, VCM, Arsine, Phosphine, Phosgene, Amines, VOC's and many organics

SpectraSensors

- Tunable Laser Diode (TDL) Moisture and CO₂ Analyzers (PPM) for Natural Gas Pipelines, Atmospheric and Process Gases

Perma Pure, Inc.

- Nafion® Gas Dryers, Thermo-Electric Coolers, GASS™ and Baldwin™ Series Sample Conditioning Systems; Heated Filter Probes; Filters, Scrubbers and Air Dryers, Flow Control Panels

Rotronic Instrument Corp.

- Digital Relative Humidity, Temperature and Dewpoint Transmitters and Probes; Portable Instruments, Data Loggers

D & M Instruments, Inc.

- Hazardous Area Approved Type "Z" Purge Indicators and Type "X" Purge Controllers

Blue-White Industries

- Metering Pumps- ProSeries Peristaltic or Diaphragm
- Chemical Feed Systems- ProSeries Chem-Feed CFS
- Pre-engineered include Single or Dual Pumps

SCADA/Telemetry Product Lines

Dorsett Technologies

- Info-Scan for SCADA and Enterprise-wide Monitoring and Control of Facilities - flexible, expandable system meets specific needs of simple systems to over 100,000 points using existing instrumentation
- Economical MS5 xTalk RTU for Field Mount - Powerful 16 Digital Input, 16 Analog Input, 16 Universal Outputs, with Ethernet Port for Uplink and Four Serial Ports for ModBUS and other standard protocol communication to VFDs and other 3rd party equipment

Phoenix Contact

- Telemetry Systems utilizing Trusted Omnex HopLink Technology (Spread Spectrum Products)

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Instrument/Valve Product Lines for All Industries

Berthold Technologies U.S.A. LLC

- Non-contact Instruments for Continuous & Point Level, Liquid Density & Solids Mass Flow (Weighing Systems/ Free Fall), HART; Ash in Coal Analyzer
- Microwave Liquid/Slurry Density Gauge
- Microwave Moisture Analyzer Systems
- Radiation Survey Meters, Semi-stationary or Portable

GE Sensing - Industrial

- Flow Products** Clamp-on Transit-Time Portable or Fixed Flowmeters for 1/2" to 300" Line sizes, General Purpose, I. S. or Explosion-Proof, for Liquid, Gas or Steam Service; Vortex Flowmeter for Volumetric or Mass Flow (Multivariable); Insertion (Wetted) Transit-Time Flowmeters for Steam Service, Wide Turndown
- Pressure/Level Products** Druck Submersible Pressure Transducers for Depth/Level Measurement - GP or Hazardous, Process Pressure Transmitters, Industrial "Screw-in" Pressure Transmitters
- Calibrators** DPI 620 Multifunction Documenting Calibrator-HART Communicator- for Pressure, Temperature, Electrical Signals; Compact Loop/ Temperature Calibrators,
- Pressure Calibrators and Sources** Pressure and High Precision Pressure Calibrators, Pneumatic and Hydraulic Hand Pumps, Pressure/Vacuum Supply Units

Elite Valve

- Fully Customizable High Performance Knife Gate Valves, Polyurethane Lined Knife Gate Valves for heavy slurry and FGD Systems, 2" to 42" - 316 SS and other alloys
- Butterfly Valves Standard or Teflon Coated, Lug Style 2" to 48", AWWA Butterfly Valve to 36"
- Ball Valves, Stainless Steel, 1/4" to 12", 2- and 3-way
- Manual Levers and Handwheels, Pneumatic or Electrical Actuators, Cylinders and Limit Switch Options

FLO-Corp

- Flow Meters - Volumetric, Positive Displacement, Turbine, Purge, Open Channel and Calorimetric Meters, Water Meters
- Level Transmitters/Switches- Radar Level Transmitter for Liquid and Granular Applications, Vibrating Element Level Switch, Ultrasonic Gap Level Switch
- Display Meters Configure/Data Download Functions

MicroMod Automation & Controls, Inc.

- Legacy PID Controllers: Micro-DCI and MOD Control Product Families; Parts, Upgrades, Replacements
- Pre-engineered Solutions - WaterPAK for Water/Wastewater, SteamPAK for Boiler Control
- HMI Solutions- SCADA, Operator Panels, Networks
- Phoenix DX Variable Speed Digital AC Drives, Panels
- Paperless Recording Systems and Data Loggers

Perma-Cal Industries, Inc.

- Direct Drive Pressure Gauges- High Reliability & Safety, Process or Test

Precision Digital

- Digital Panel Meters, Combo Bargraph/Digital Display Device for 4 or 8 Channels, Annunciators
- NOVA Series Temperature/Process Controllers: 1/16, 1/8, 3/16, 1/4 DIN w/Setpoint Programs
- ExTense Series Universal Temperature Transmitters, HART w/ Optional Ex-proof Local Display

Thermocouple Innovations

- Thermocouples, RTDs & Wells, Connectors, Panels, Accessories; Thermocouple Wire and Cable

Trimec Flow Products

- Multipulse PD Flowmeters, Turbopulse In-Line / Dualpulse Insertion Turbine Flowmeters, Universal Flowrate Totalizer



APPLICATIONS

Liquid Analyzers

Rosemount Analytical Liquid Div.-pH/ORP, Conductivity, Resistivity, Chlorine, % Concentration, Dissolved Oxygen or Ozone, Turbidity, Select Ion, Wireless WiHART Systems

Gas Analyzers/Sample Systems

Rosemount Analytical- Process Streams, Stack or Flue, CEMS, Chromatographs, Combustion Analyzers
Rosemount Analytical- Oxygen AnalyzersPPB, PPM to 100%
E Instruments- Handheld or Portable Combustion Analyzers
EnviroNics - IMS (Ion Mobile Spectrometry) Analyzers - Stack, Ambient and Process for PPB and PPM Levels
PermaPure- Nafion® Gas Dryers, GASS™ and Baldwin™ Series Sample Conditioning Systems for Stack or Flue Gas; Filters, Scrubbers, Air Dryers and Heated Filter Sample Probes
SpectraSensors- Tunable Diode Laser (TDL) for Moisture, CO_c, NH₃, CO, NO, HCl, H₂S, ETO, HF, CH₄ and O_c in process streams

Moisture

Berthold Technologies- Microwave On-line Analyzer
SpectraSensors- TDL On-line or Portable Moisture Analyzer in Gases

Environmental/Hazardous Area Monitors

D & M Instruments, Inc.- "YZ" Purge Indicators and Systems
Emerson Chromatographs- Area Monitor GC Systems
Emerson Net Safety- Infrared or Catalytic LEL Detection, Toxic Gas and Oxygen Deficiency Transmitters and Systems

Liquid Concentration/Density

Berthold Technologies-Non-contact Radiation Absorption or Microwave Technologies

Flow

GE Sensing - Clamp-on Ultrasonic Transit-Time Meter for Liquid, Gas or Steam Applications; In-line Vortex Meter for Steam or Liquids
Fox Thermal - Thermal Mass Flow Measurements for Compressed Air, Natural Gas, Process Gas, Combustion Air and more
Pulsar - Open Channel Flowmeter w/ Pump Station Controller, Variable Area Meter for Velocity Measurement
Submerged Area Velocity for Pipes or Rectangular Channels
Delta M Corp.- Thermal Differential Gas or Liquid Flow Switches; Thermal Mass Flowmeter for Liquids
FLO-Corp.- Volumetric, Positive Displacement, Turbine, Purge, Variable Area, Calorimetric Meters and Water Meters
Berthold Technologies - Non-contact Radiation Absorption for Bulk Materials (belt scale or free fall type)
Aalborg - Thermal Mass Flow Controllers, Digital Mass Flow Controllers, Variable Area (Rotameter) Flowmeters

Level

Berthold Technologies- Non-contact Radiation Absorption, Continuous Transmitter or Point Switch
Delta M Corp.- Thermal Differential Point or Multipoint Switches
FLO-Corp.- Radar Level Transmitter for Liquid and Granular Applications, Vibrating Element Level Switch, Ultrasonic Gap Level Switch, *AccuTank* Tank Inventory Management System
Pulsar- Ultrasonic and Submersible Transmitters and Pump Control Systems; RF, Vibrating Element, Ultrasonic Gap Switches
ProMag Ltd.- Magnetic Float Type Indicator/Transmitter, Switches

Temperature/Pressure/RH

ACR Systems- Temperature, DP, P, RH, & Process Data Loggers
Absolute Process Instruments- Transmitters, Alarms, Isolators
API-Cecomp - Digital Pressure Gauges, Digital Temperature Gauges
MultiCable Corp.- Thermocouple Wire and Cable
GE Sensing Druck- PressureTransmitters, Submersible or Process
Perma-Cal Industries - Direct Drive Pressure Gauges
Precision Digital- Panel Meters, Controllers, Temperature Transmitters: Universal, HART, GP or Ex-Proof
Rotronic Instrument- RH/Dewpoint Transmitters, Loggers
ThermoCouple Innovations- Thermocouples, RTDs, Thermowells, Connectors

Metering Pumps/ Chemical Feed Systems

Blue-White Industries- *Pro-Series* Chem-Pro Diaphragm Metering Pumps and Flex-Pro Peristaltic Metering Pumps, *Pro-Series* Chem-Feed Pre-engineered Single and Dual Pump Skid Systems

Remote Alarming and Telemetry

FLO-Corp.- DigaCom 2000 Remote Alarm Communications
Phoenix Contact- Telemetry Systems for Analog and Digital I/O and RS232 or RS485 Serial Data
Precision Digital- Remote Annunciators and Systems

Controllers/Control Systems/SCADA

Dorsett Technologies - Info-Scan SCADA System, Economical MS5 xTalk RTU for remote locations
MicroMod Automation & Controls-Legacy Micro-DCI and MOD Controllers, single or multi-loop control, manual loading stations, display stations; MODCELL Distributed Control w/ HMI Stations; SCADA Systems

Test and Calibration

GE Sensing Druck- Compact Handheld Single or Documenting Multifunction Calibrators: Pressure, Process Signals, Temperature, Electrical; Handpumps, Pneumatic or Hydraulic Pressure Generators
GE Sensing- Portable Clamp-on Flowmeters for Liquids or Gas
E Instruments HVAC- Handheld Flow Monitor for Gas/Air (Velocity, Volumetric, DP, P, Temperature)
Perma-Cal Ind.- Precision Test Gauges (w/optional pump)
Rotronic Instrument- Handheld RH/Temperature Instruments

Valves/ Pipe Components

Elite Valve - High Performance Knife Gate Valves, Butterfly Valves and Stainless Steels Ball Valves
Fujikin of America- Solid Ceramic Ball Valves, 1/2" to 6" Size, Throttling, On/Off and Manual; Ultra-Precise Control w/ Mini-Control Valves, 1/2" to 2"; *Abrasion-Corrosion Resistant*
Ceresist- Ceramic Orifice Plates, Ceramic Lined Spoolpieces, Elbows, Flange Adapters, Reducers and Pipe Sections; Z-Max Ceramic-Lined Butterfly Valves, 2" to 10" Size

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