Analytical Product Lines

Rosemount Analytical, Inc.

Single Source Solution for Analytical Needs
Featuring Foundation Fieldbus, HART, & PlantWeb Communications

Liquid Analyzers
1. Continuous On-line Analyzers for pH/ORP, Conductivity, % Concentration, Turbidity, Total & Free Chlorine, Dissolved Oxygen, Dissolved Ozone, & Select Ion
2. Wireless HART Transmitters and Smart Sensors

Combustion Analyzers
1. Continuous Analyzers - Single/Multicomponent X-Stream Series NOx, CO, CO2, SO2, H2, CO, VOC, Moisture, C2, NH3, & other gases
2. Continuous Emissions Monitoring Systems, Stand-Alone Cabinets, Shelters, & Modular Systems

Process Gas Analyzers/CEMS
1. Continuous Analyzers - Single/Multicomponent X-Stream Series NOx, CO, CO2, SO2, THC, H2, VOC, Moisture, C2, NH3, & other gases, General Purpose or Ex-proof
2. Continuous Emissions Monitoring Systems, Stand-Alone Cabinets, Shelters, & Modular Systems

Chromatographs - GC Systems
1. Multicomponent Model 700XA Process Gas Chromatograph Transmitter for Process and Ambient Monitoring, field mount (no shelter needed)
2. Models 1500XA and 500 Process Gas Chromatographs for most trace & % level

Galvanic Applied Sciences

Gas Analysis
1. H2S/Total Sulfur Analyzer, Brimstone Tail Gas Analyzer for H2S and SO2, PLGC Chromatograph/ BTU Analyzer, Tytronics FPA 4000/1100 UV Analyzer

Liquid Analysis
1. Tytronics Sentinel Wet Chemistry Analyzer - ISE, Colorimetric, Titerenatic, and Spectrophotometric
3. Monitek Turbidity, Suspended Solids & Color Monitors
4. Nantire In-line Viscosity Meter

GE Sensing - Moisture & Gas Products
1. chilled Mirror Hygrometer; Moisture Analyzers and Transmitters; Industrial Relative Humidity - Class 1 Div 1
2. Tunable Diode Laser (TDL) Moisture Analyzers (PPM) for Natural Gas Pipelines, Atmospheric and Process

Perma Pure, Inc.
1. Nafion® Gas Dryers, Thermo-Electric Coolers, GASS™ and Baldwin™ Series Sample Conditioning Systems; Heated Filter Probes; Filters, Scrubbers and Air Dryers, Flow Control Units

AURA Gas Controls
1. Pressure and Back Pressure Regulators, Vaporizing Regulators; Single and Dual Stage; LumiShield technology - chemically inert, enhanced corrosion protection (200 times 316SS for long life service)
2. Auto DP Switchtow System for uninterrupted gas supply

Rotronic Instrument Corp.
1. Digital Relative Humidity, Temperature and Dewpoint Transmitters and Probes; Portable Instruments, Data Loggers

Instrument/Valve Product Lines

GE Sensing - Industrial
1. 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)
2. Pressure/Level Products Druck Submersible Pressure Transducers for Depth/Level Measurement - GP or Hazardous, Process Pressure Transmitters, Industrial "Screw-in" Pressure Transmitters
3. Calibrators DPI 620 Geni Multifunction Documenting Calibrator- HART Communicator for - Pressure, Temperature, Electrical Signals; Loop/ Temperature Calibrators, Pressure and High Pressure Pressure Calibrators, Pneumatic and Hydraulic Hand Pumps, Pressure/Vacuum Supply Units

Berthold Technologies U.S.A. LLC
1. Non-contact Instruments for Continuous & Point Level, Liquid Density & Solids Mass Flow (Weighing Systems/Free Fall), HART; Ash in Coal Analyzer
2. Microwave Liquid/Slurry Density Gauge
3. Microwave Moisture Analyzer Systems
4. Radiation Survey Meters, Semi-stationary or Portable

Fujikin of America, Inc.
1. Solid Ceramic Ball Valves, 1/2" to 6", Throttling, On-off and Manual; Abrasion and Corrosion Resistant
2. Ceramic Lined Butterfly Valves, 2" to 10"

Ceresist, Inc.
1. Ceramic Lined Spoolpieces, Elbows, Reducers and Orifice Plates
2. Ceramic Lined Butterfly Valves

Elite Valve
1. Fully Customizable High Performance Knife Gate Valves, Polyurethane Lined Knife Gate Valves for heavy slurry and FGD Systems, 2" to 24", 316 SS, other alloys
2. Butterfly Valves Standard or Teflon Coated, Lug Style 2" to 48", AWWA Butterfly Valve to 36"
3. Ball Valves, Stainless Steel, 1/4" to 12", 2- and 3-way
4. Manual Levers and Handwheels, Pneumatic or Electrical Actuators, Cylinders and Limit Switch Options

Delta M Corporation
1. Flow, Level, Interface & Temperature Switches, Thermal Differential Principle; SP76 Compliant Flow Switch, VERSA-SWITCH - field configurable for Mass Flow, Level or Temperature

Fox Thermal Instruments, Inc.

Trimec Flow Products
1. Multipulse PD Flowmeters, Turbopulse In-Line / Dualpuls Insertion Turbine Flowmeters, Universal Flowrate Totalizer

Absolute Process Instruments
1. Signal Transmitters, Conditioners, Alarms, Loop Isolators, Power Supplies: D/A or Plug and Socket
2. RheinTacho Speed Monitors and Tachometers
3. Sineax True RMS Multi-function Electrical Power

Cecomp
1. Digital Pressure and Temperature Gauges, mA Output or Battery Power; FM Approved Gauges

Perma-Cal Industries, Inc.
1. Direct Drive Pressure Gauges - High Reliability & Safety, Process or Test
Instrument/Valve Product Lines (Continued)

ProMag, Ltd.
- Magnetic Float Type Liquid Level Indicator/Transmitter; Liquid Level Switches
- Magnetostrictive Level Transmitter
- Auto-Pump Maintenance Free Pump

HITECH Technologies, Inc.
- Continuous Level Transmitters - HART, EchoTrek Smart Ultrasonic, Pressure - Tank Mount, Submersible, or Sanitary, Penetrating Pulse (through the wall), Laser, RF
- Level/Interface Switches - Vibration Element, Ultrasonic Gap, Penetrating Pulse

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

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

Blue-White Industries
- Metering Pumps- ProSeries, Peristaltic or Diaphragm
- Chemical Feed Systems- ProSeries Chem-Feed CFS
- Pre-engineered include Single or Dual Pumps
- Economical Strap-on ProSeries Hybrid Ultrasonic Flowmeters, Doppler or Transit Time, field select; Variable Area Flowmeters

Manning Environmental, Inc.
- Liquid Samplers for Effluent collection: Vacuum or Peristaltic Fluid Samplers, Portable or Stationary provide Composite or Discrete Sampling of Non-toxic or Toxic

Tycon Systems
- Remote Solar Power Systems, 12 V, 24V, or 48 VDC
- Battery Back-up Systems

Control/SCADA/Telemetry Product Lines

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

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 MSS 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)
- Power Supplies/ Relays/ Terminal Strips/ Interface Modules

APPLICATIONS

Analytical
- pH/ORP, Conductivity, Resistivity, Chlorine, % Concentration, Dissolved Oxygen or Ozone, Turbidity, Select Ion
- Turbidity/Suspended Solids and Color Monitors
- In-line Viscometer
- On-line Wet Chemical - Colorimetric, Titrimetric, ISE and spectrophotometric for acidity, alkalinity, hardness and more
- TOC Analyzer, Online or Laboratory
- Process Gas, Stack or Flue Gas, CEMS, Chromatographs, Combustion Analyzers - O2 or O3 and Combustibles
- H2S/Total Sulfur, Tail Gas Analyzers for H2S and SO2
- IMS (Ion Mobility Spectrometry) PPB or PPM level analyzers
- Handheld or Portable Suitcase Style Combustion Analyzers
- Oil in Water Analysis, Leak Detection Systems
- Combination Moisture/Oxygen (non-depleting cell) Analyzer
- TDL (Tunable Diode Laser) Analyzer for PPM Moisture in Gases
- Sample Conditioning Systems, Components and Dryers
- Microwave On-line Moisture Analyzer

Liquid Density
- Non-contact Radiation Absorption or Microwave Technologies
- Flow
- Clamp-on Transit-time Measurement for Liquids and Gases, on-line and portable
- Thermal Differential Gas or Liquid Flow Switches
- Thermal Mass Flowmeter for Gases, Air, Combustion Air
- Non-contact Radiation Absorption for Bulk Materials, belt scale or free fall type
- Positive Displacement, In-line and Insertion Turbine Meters, Universal Totalizer/Indicator
- Open Channel, Area Velocity meter or Ultrasonic Type

Level
- Non-contact Radiation Absorption, Continuous Transmitter or Point Switch
- Thermal Differential Point or Multipoint
- Ultrasonic, RF, Vibrating Element, Conductance
- Submersible Level Transmitters
- Magnetic Float Type Indicator/Transmitter

Temperature/Pressure/RH
- RH/Dewpoint Transmitters and Dataloggers
- Thermocouples/RTDs, Thermowells, Extension Wire, Connector
- Digital Pressure Gauge/Transmitter, Direct Drive Press. Gauges

Test and Calibration
- Compact Handheld Single or Multifunction Calibrators, Electrical Signals and/or Pressure, HART Communicator
- Precision Test Gauges (w/optimal pump)
- Handheld RH/Temperature Instrument

Control Systems/SCADA
- Controllers/Control Systems, Package Pre-engineered Systems
- Economical Expandable RTUs to Complete Enterprise Systems

Regulators/Valves
- Solid Ceramic Ball Valves, 1/2” to 6” Throttling, On/Off, Manual
- Fully Customizable Knife Gate Valves, Ball Valves
- Pressure/Backpressure Regulators, Vaporizing Regulators

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