



# Equipment and Processes



Northwest  
Instruments  
& Controls

**Timnath, CO Office: (970) 224-9129**

Buffalo, WY Office: (307) 620-9594

Phoenix, AZ Office: (505) 716-0269

Seattle, WA Office: (206) 638-8283

Email: [sales@nwinstruments.com](mailto:sales@nwinstruments.com)

## About Northwest Instruments & Controls

Northwest Instruments and Controls was incorporated in 1992 as an exclusive manufacture representative of process control equipment for industrial market throughout West coast. We pride ourselves with excellent customer service, quality products, a highly trained service and sales staff and ability to provide complete engineered solutions. Northwest Instruments and Controls is your solution for instrumentation and control valve requirements.



# Our Collaborators

## Valves and Mechanical Equipment

### **Baker Hughes - Masoneilan**

Globe, Rotary, and Three-way Pneumatic Control Valves, Severe Service Control Valves, Digital Valve Positioners, ESD & Fieldbus Valve Positioners, Level Displacers.

### **Mogas Industries**

Customizable Isolation Valves, Low Pressure Isolation Valves, Vent & Drain Valves, Power Operated Relief Valves, Inline Repairable Valves, Rotary Control Technology, Modular Process Units (Skids), Special Linkages (Dual & Quad Valves), Ultra High-pressure Valves, Unique Bore or Inlet/Outlet Sizing, Diverter/Switching Valves.

### **Continental Disc Corporation**

Forward & Reverse Acting Rupture Discs, Specialized Rupture Discs, Burst Disc Indicators & Holders.

### **Groth Corporation**

Pressure & Vacuum Relief Valves, Flame & Detonation Arrestors, Blanket Gas Regulators & other low-pressure relief products.

### **Bachmann Industries**

GT Exhaust & Bypass Systems: Simple-Cycle Exhaust Systems, Combined-Cycle Bypass Systems, Repowering Systems & Solutions, APC & Process Control Dampers: Louver, Diverter, Guillotine, Poppet, Butterfly, Flap, Specialty. For Isolation, Flow Control, or Bypass. Expansion Joints: Metallic & Fabric.

### **Clyde Industries**

Boiler Efficiency: On-Load Boiler Cleaning Systems, Process Optimization, Controls, Service/Parts. Energy Recovery: HRSG & Waste Heat Recovery Units, Economizer, Recuperators, Air Preheaters.

### **CECO Peerless**

Compact, engineered, high-efficiency, processing, separation, and filtration equipment.

### **Schubert & Salzer**

Pneumatic or Electrically Actuated Control and On/Off Valves, Sliding Gate Control Valves, Angle Seat and Three-way Valves, Ball Sector Valves, Sanitary Valves, Pinch Valves, Valve Positioners and Manifolds.

### **Rotork**

Pneumatic Drives, Linear Damper Drives, Vane Operated Quarter-Turn Pneumatic, Actuators, CK Range Electric Actuators, Wireless Valve Monitoring, Control Valve Positioners, Piston Actuated Valves, Limit Switches, Solenoids.

### **Centrisys-CNP**

Dewatering Centrifuge, Sludge Thickener, Vertical Cuttings Dryer, High Speed Disc Separator, Centrifuge Mobile Systems. Service and Repair for all brands of Centrifuges.

**Baker Hughes** 

Channel Partner

**MOGAS**®



**Continental Disc**  
Corporation



**BACHMANN**  
INDUSTRIES, INC.

**CLYDE**  
INDUSTRIES

**CECO**  
ENVIRONMENTAL

SCHUBERT  SALZER

**rotork**®

 **centrisys**  
cnp

# Our Collaborators

## Analytical

### Extrel

Process, Research, & Lab Mass Spectrometers, Molecular Beam & Plasma Analysis Systems, Trace Systems, HRQ, ATEX Industrial Gas Analyzer, Environmental Mass Spec, Bioreactor Gas Analysis, Real-Time Heating Value Gas Analyzer.



### Environment One Corporation

Generator Condition Monitors, Equipment for Hydrogen/Air Cooled Generators, Generator Gas Analyzers and Dryers.



### SWAN Analytical

On-line and Portable Water Analyzers, Silica, Sodium, Conductivity, Turbidity, Chlorine, Nitrate, Dissolved Oxygen, Ammonia, Hydrazine, Phosphate, TOC.



### Teledyne Monitor Labs

Continuous Emission Monitoring Systems, Opacity & Particulate Monitoring Equipment, Gas Analyzers (SO2, NOX, O2, CO, CO2).



### Teledyne Analytical Instruments

Oxygen Analyzers, Photometers, Ultra-Fast Gas Chromatography, Total Sulfur, Multi-point Combustion Analysis, Thermal Conductivity, Plasma Ionization-Nitrogen in Argon, Flame Ionization Detectors, Moisture Analysis, Liquid Analytics, TDLS, Handhelds.



### COSA Xentaur

Dew Point Meters and Sampling Systems, Portable Dewpoint, Natural Gas Dewpoint, Optical Moisture, Zirconia O2, Handheld Multi-Gas, Portable BTU GC, Relative Humidity, SF6 Purity, Stack Oxygen, BTU Calorimeter.



### LAR Process Analyzers

Online Water Analyzers for Biological Oxygen Demand, Chemical Oxygen Demand, Conductivity, Total Nitrogen Bound, TOC, and Toxicity.



### Alpha Omega Instruments

Trace and Percent Oxygen Analyzers, Oxygen Deficiency Safety Monitors.



### Atom Instrument

Laboratory and online elemental analyzers for total sulfur-nitrogen applications in liquids, solids, and gases.



### MBW Calibration

Humidity Measurements, SF6 Gas Analysis, and Humidity Generation.



### Tiger Optics

Cavity Ring-Down Spectroscopy (CRDS) analyzers based on mid-infrared Quantum Cascade Laser (QCL) technology.



### Guided Wave

Optical insertion probes and flow cells, photometers, fiber optic cables, full-spectrum process spectrometers, sampling systems, and data analysis software.



# Our Collaborators

## Instrumentation

### Flexim

Clamp-on Ultrasonic Flow Measurement for Liquids, Gases, and Steam. Including Compressed Air Flow, Mass Flow, Density and Concentration Measurements, and Thermal Energy Meters.

### Fuji Electric

Gauge, Absolute, and Differential Pressure Transmitters, Hydrostatic Level Transmitters, Diaphragm Seal Assemblies, High-Static dP Transmitters, Orifice Plates, HART Handhelds, Ultrasonic, Electromagnetic, and Clamp-on Flowmeters, Temperature Recorders, Zirconia O2 Probes, Tunable Diode Lasers, NDIR Analyzers.

### Berthold Technologies

Radiometric Instrumentation for Level, Density, Bulk Flow, Moisture, and Concentration Measurements. Sources and Shields.

### OleumTech

Wireless Gateways, Wireless LCD Transmitters, I/O Modules, Wireless Level Sensors & Switches, Smart Pressure Transmitters, LCD Tank Level Sensors, Flow Totalizer, Float and Tuning Fork Switches, Magnetic Flowmeters.

### Reotemp Instruments

Bimetallic Thermometers, Digital Industrial Thermometers, RTD's, Thermocouples, Thermowells, Pressure Gauges, Diaphragm Seals, Diaphragm Seal Repair, All-Welded Process Seal Gauges, Pressure Transducers.

### Sierra Monitor Corporation

Combustible and Toxic Gas Monitoring Systems, Gas Detection System Controllers.

### Ametek O'Brien

Electric and Steam Heated Tubing Bundles, CEMS and Analytical Tubing Bundles, Instrument Enclosures and Heaters, Instrument Support Stands.

## Services

### Mikewill Automation

Engineering services including turnkey solutions for controls upgrades, new project design, on-site support, and electrical engineering.

### CemTek

Solutions for today's process efficiency improvements and environmental compliance challenges. Focus on integration of advanced analytical equipment into existing process units including sample conditioning systems, data acquisition handling and custom-engineered Continuous Emissions Monitoring Systems.

### Control Valve Repair and Testing

### Ambient Gas Detector Calibrations

### Instrument and Valve Walkdowns



**FLEXIM**

**FE** Fuji Electric

**BERTHOLD**

**OleumTech®**

**REOTEMP**  
INSTRUMENTS

**smc** sierra monitor

**O'BRIEN**

**MIKEWILL**  
AUTOMATION

**CEMTEK**  
KVB-Enertec