



phive

CONTROLS AUTOMATION & SUPPLY

Phive Controls Automation and Supply combines the legacies of three outstanding firms: Lucas Controls, Applied Control Technology, and D.D. Frederick Company. The union of these three companies to form Phive Controls Automation and Supply benefits our clients with the synergy of our product offerings, improved geographic coverage, and a combined 125-year history of exceptional manufacturing partnerships. Joining the expert staffs of Lucas Controls, Applied Control Technology, and D.D. Frederick Company offers our Phive Controls Automation and Supply clients the opportunity to leverage our collective experience, product knowledge, manufacturing histories, and engineering talents. Phive Controls Automation and Supply's mission is to provide excellence in process instrumentation, control systems, and automation solutions with a steadfast commitment to the clients we serve. From three we are Phive.



Serving
Oklahoma
Kansas
Nebraska
Arkansas
Missouri
Texas

Logos include: D.A. MFG. CO., INC., WEED Instrument, Technip COFLEXIP, Varec, neoMONITORS, DELTACONROLS CORPORATION, eone UTILITY SYSTEMS, fireye, MICHELL Instruments, MUELLER, swan ANALYTICAL INSTRUMENTS, Zirtek, peterpaul, Thermo SCIENTIFIC.

www.phivecas.com • sales@phivecas.com



D.D. Frederick Co.
Instrument & Engineered Product Sales
Since 1971*



phive = passion+honesty+innovation+vision+excellence



HIGH PRESSURE SPECIALISTS

High Pressure Valves, Fittings & Tubing

- To 150,000 psig

Research Products

- Stirred Autoclaves/Catalytic Reactors
- Pressure Vessels

Process Systems

- MagneDrive Mixers
- Accessories/Instrumentation

Pumps

- Air Driven, High Pressure



www.autoclave.com



WORLD LEADER IN RUPTURE DISK

- Tension Loaded
- Reverse Buckling
- Explosion Vents
- Graphite
- Sanitary

- Safety Heads
- Burst Disk Sensors/Monitors
- ASME CODE Certified to Latest Revision
- OEM Assemblies
- Custom Engineered Products

- Buckling Pin Relief Valve



www.bsbsystems.com



LEVEL AND FLOW PRODUCTS FOR THE POWER AND PROCESS INDUSTRY

- Reliance® Boiler Trim, Remote Level Indicators/Controls
- Jerguson® Liquid Level Gauges & Valves, Magnetic Gauges
- Anderson® Separators Filtration and Separation, Hycoa Liquid Filtration Transfer Valves
- Magne-Sonics® Level Sensors/Switches
- Jacoby-Tarbox® Sight Flow Indicators, Educators



www.clarkreliance.com



COMPLETE LINE OF INSTRUMENT VALVES AND MANIFOLDS

- Instrument Valves
- Instrument Manifolds
- Gauge Valves
- Isolation Valves



www.d-a-mfg.com



ENGINEERED SENSORS FOR DIFFICULT SERVICES

- Ultrasonic
- RF Admittance
- Conductivity and Mechanical Level Transmitters and Alarms for Liquids and Solids
- Target Type Flow Switches
- High Temperature Purged T/C assemblies



www.deltacnt.com



ENGINEERED FIRE AND GAS DETECTION SYSTEMS

- Infrared PointWatch and PathWatch Hydrocarbon Gas Detection
- Catalytic Combustible and Electrochemical Toxic Gas Alarms
- UV, IR, and UV/IR Fire Alarm Systems
- Explosion Proof Smoke Detectors



www.det-tronics.com



HYDROGEN-COOLED AND AIR-COOLED GENERATOR APPLICATIONS

- Generator Core Monitors
- Generator Gas Analyzer
- Generator Gas Dryer



www.eone.com/utility-systems/regions/us



FLAME SAFEGUARD AND COMBUSTION CONTROLS

- Flamescanners
- Burner Safeguard
- Burner Management



www.fireye.com/utcms/Templates/Pages/Template-46/1,8060,pagelD=796&siteId=373,00.html



DEW-POINT, HUMIDITY AND OXYGEN SPECIALISTS

- Hydrocarbon Dew-Point Analyzers
- Dew-Point Transmitters
- Chilled Mirror Hygrometers
- O₂ Analyzers
- Relative Humidity Sensors



www.michell.com



HEAT TRANSFER PRODUCTS

- | | |
|------------------------------------|------------------------------------|
| Temp-Plate - Heat Transfer Surface | Accu-Therm Plate Heat Exchangers |
| • Clamp-On Heat Exchangers | • Liquid to Liquid Heat Exchangers |
| • Immersion Heat Exchangers | • Steam to Liquid Heat Exchangers |
| • Custom Heat Exchangers | |



www.muel.com/ProductDivisions/Heat_Transfer_Products



LASER BASED GAS AND DUST MONITORS

- | | |
|----------------------------|--------------------------|
| • In-situ Gas Analyzers | • Portable Gas Analyzers |
| • Extractive Gas Analyzers | • In-situ Dust Analyzers |
| • Open Path Gas Analyzers | • CEMS Analyzers |



www.neomonitors.biz



PREMIER SOLENOID VALVE SOLUTIONS

- 2 and 3-way Solenoid Valves for Air, Gas, Water, and other specialty fluids
- Explosion-proof and general purpose solenoid valves
- High and low pressure and flow applications
- Specialty and high volume, OEM solutions



www.peterpaul.com



INSTRUMENTATION, CONTROL AND MEASUREMENT SOLUTIONS

- Mag, Coriolis Mass, Vortex and Ultrasonic Flow Meters
- Radar, Ultrasonic, Capacitance and Guided Wave Continuous and Point Level
- Temperature and Pressure Transmitters • Pneumatic relays and regulators
- PID Loop Controllers and Recorders • Pneumatic and Electronic Smart Valve Positioners



<http://www.industry.usa.siemens.com/automation/us/en/process-instrumentation-and-analytics/process-instrumentation/Pages/process-instrumentation.aspx>



WATER QUALITY ANALYZERS

- | | |
|--------------------|-------------|
| • Chlorine | • Phosphate |
| • Conductivity | • Silica |
| • Dissolved Oxygen | • Sodium |
| • Hydrazine | • Turbidity |
| • pH | |



www.swan-analytical-usa.com



MAINTENANCE-FREE FLEXIBLE STEEL PIPE SYSTEMS FOR FLOATING ROOF TANKS

- | | |
|-------------------------|-----------------------------------|
| • Drain Systems | • 3 Layer Medium Pressure or COWS |
| • Foam Systems | (Crude Oil Washing Systems) Lines |
| • Skimmer/Suction Lines | • Decoking Lines |



www.technip.com/en/entities/draps

COFLEXIP PRODUCTS DIVISION



PROCESS MEASUREMENT SYSTEMS AND INSTRUMENTATION

- | | |
|------------------------------|---------------------------------|
| • Level Sensors | • Data Acquisition Systems |
| Nuclear, Neutron Backscatter | Data Recorders, Data Management |
| & Ultrasonic Point Level | • Density Meters |



www.thermoscientific.com/en/products/density-level-instruments.html





MEASUREMENT, CONTROL, AUTOMATION AND ENTERPRISE SOLUTIONS

- Tank Gauging Instruments (Radar, Servo, Float and Tape)
- Fuel Management and Inventory Software
- Fully Integrated Systems



www.varec.com



HIGH TECHNOLOGY TEMPERATURE MEASUREMENT

- Thermocouples
- RTDS
- Thermowells
- Wire & Accessories
- Tube-Temp/Weld-Pad
- Special Designs



<http://ultra-nspi.com/products/industrial-temperature-sensors-transmitters>



IN-SITU OXYGEN ANALYZERS

- In-situ zirconium oxygen analyzer systems
- Process temperatures up to 2900° F
- Fast, reliable measurement
- Multi-probe systems

phive TULSA

2235 E. 6th St.
Tulsa, OK 74104-3233

918.745.0400
fax 918.748.8605

phive TULSA

1605 E. 11th St.
Tulsa, OK 74120

918.599.7200
fax 918.583.1700

phive KANSAS CITY

5800 Barton, Suite 210
Shawnee, KS 66203

913.268.7600
fax 913.268.7601

www.phivecas.com • sales@phivecas.com

phive = **passion+honesty+innovation+vision+excellence**