



PROCESS CONTROLS & INDUSTRIAL AUTOMATION

Analytical Gas & Liquid Condition & Vibration Monitoring Control Data Acquisition Density
SOLUTIONS Enclosures Fixed Gas & Flame Detection Flow Heat Trace Level
 Moisture Pressure Signal Conditioning & Isolation Temperature Valves Wireless & Telemetry

INDUSTRIES SERVED

Refining & Petrochemical | Natural Gas | Energy & Power Generation
 Utilities | Renewable Energy | Mining & Metal | Pharmaceutical
 Life Science | Food & Beverage | Pulp & Paper | Iron & Steel
 Semiconductor | Water & Wastewater | Biofuel
 Building Materials & Construction | Cement
 General Industrial & Manufacturing | Environmental | Aerospace

STRATEGIC PARTNERS

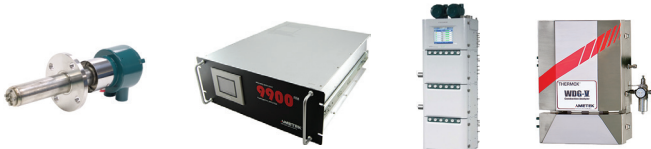




PROCESS CONTROLS & INDUSTRIAL AUTOMATION

With over 20 years in process controls and industrial automation, TechStar has everything needed to help get your measurement and process challenges solved and running in their optimal performance and output. Experience, innovative solutions, training and service are the foundation of what TechStar offers to customers. Backed by our world class manufacturing strategic partners, our team is well equipped to see you through every step of the toughest applications and challenges.

ANALYTICAL GAS



- Oxygen Analyzers
- Hydrogen Analyzers
- Tunable Diode Laser Spectrometers
- Process Gas Chromatographs
- CEMS Analyzers
- Gas Density Analyzers
- Gas Detection
- Electric Heated Instrumentation
- Analyzer Bundles
- Advanced Reflux Sampler
- UV Analyzers

ANALYTICAL LIQUID



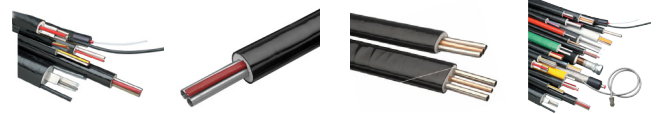
- Aluminum Oxide Sensors
- Chlorine Analyzers
- Conductivity Analyzers & Sensors
- Dissolved Oxygen
- pH & ORP Analyzers
- Turbidity Analyzers
- Water Chemistry Analyzers

CONDITION & VIBRATION MONITORING



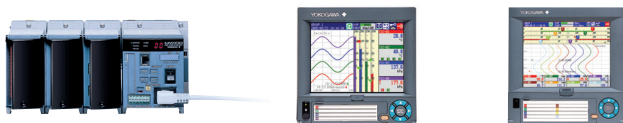
- Protection and Condition Monitoring Systems
- Diagnostic Software
- Wireless Vibration Monitoring
- Sensors and Transmitters
- Custom Cabinets, Panels & Enclosures
- Portables
- Condition Monitoring Services & Training

HEAT TRACE



- Electric Heated Instrumentation Analyzer Bundles
- Steam Traced Bundles
- CEMS Bundles
- Tubing
- Installation Services

DATA ACQUISITION



- Chart Recorders
- Data Acquisition Software
- Data Loggers
- High Speed Data Acquisition
- Portable Data Acquisition
- Panel Mount Recorders

PRESSURE



- Absolute Pressure
- Differential Pressure
- Digital Pressure Gauges
- Draft Pressure
- Gauge Pressure
- Hammer Union Pressure Transducers
- Low-Flow Pressure
- Mass Flow (Multi-Variable) Pressure
- Multi-Sensing
- Pressure Transducers
- Submersible Pressure Transducers
- Instrument Enclosures

CONTROL



- Configuration Tools
- Distributed Control System
- Limit Controllers
- Manual Setters
- Panel Indicators
- PID Controllers
- Process Controllers
- Program Controllers
- Programmable Logic Controllers
- Safety Instrumented Systems
- SCADA Systems
- Single Loop Controllers
- Temperature Controllers

VALVES



- Butterfly Valves
- Ball Valves
- Control Valves
- Actuators
- Limit Switches
- Positioners
- Solenoid Valves
- Worm Gear Operators
- Check Valves
- Globe Valves
- Gate Valves
- Plug Valves
- Basket Strainers
- Needle Valves
- Manifold Valves

FLOW



- Airflow Measurement
- Coriolis Flow Meters
- Magnetic Flow Meters
- Thermal Gas Mass Flow Meters
- Ultrasonic Flow Meters Liquid Gas:
 - Permanent Meters
 - Clamp-on Meters
 - Portable Meterw

DENSITY



- Point Detector
- Sources & Shields

WIRELESS & TELEMETRY



- Custom Automation
- Field Monitor Display
- Hazardous Location
- Wireless and Telemetry Accessories
- Wireless I/O
- Wireless Sensors & Networks
- Custom Cloud SCADA
- CIDI Solar

FIXED GAS & FLAME DETECTION



- Controllers
- Fire and Gas Systems
- Flame Detectors
- Gas Detectors/Monitors
- Mobile Gas Detection
- IR and Laser Based Open Path Gas Detectors
- Fire and Gas Mapping
- Engineering Studies

MOISTURE



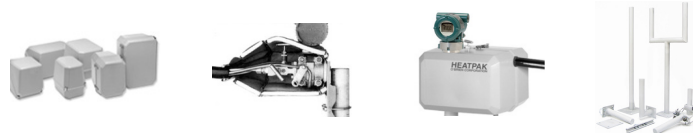
- Relative Humidity
- Trace
- Percentage
- Microwave
- Radiometric
- Sample Systems

TEMPERATURE



- Temperature Sensors and Transmitters

INSTRUMENT ENCLOSURES



- Full Enclosures
- Draft Transmitter Enclosure
- Partial & Flexible Enclosures

LEVEL



CONTINUOUS LEVEL MEASUREMENT

- Guided Wave Radar
- Magnetic Level Indicator (MLI)/Bridle
- Magnetostrictive
- Nuclear (Radiation Based)
- Radar (Pulse Burst)
- RF Capacitance
- Ultrasonic (Non-Contact)

DENSITY LEVEL MEASUREMENT

DISPLACER LEVEL MEASUREMENT

- Displacer Controllers
- Displacer Switches
- Displacer Transmitters

LEVEL SWITCHES

- Displacer Switches
- External Cage Switches
- Float Level Switches
- Thermal Dispersion Switches

MAGNETIC LEVEL INDICATOR (MLI)/BRIDLE

- Aurora®
- Magnetic Level Indicator
- Magnetostrictive

POINT LEVEL MEASUREMENT

- Nuclear (Radiation Based)
- Ultrasonic (Contact)
- Vibration Level

AUTOMATION | INTEGRATION



- Panels & VFD
- SCADA
- PLC

- Programmers
- Turnkey Solutions
- Analyzer Sample Systems

SIGNAL CONDITIONING & ISOLATION SOLUTIONS



- AC Power Transducers & Monitors
- Displays & Enclosures
- Functional Safety
- Hart/Modbus Signal Converters
- I/P Converters
- Isolators & Converters
- Limit Alarm Trips
- Remote I/O

CUSTOMIZED SERVICE SOLUTIONS

INSTRUMENTATION, ANALYZERS, RADIOMETRIC & AUTOMATION

We have the experience in process control applications you need to optimize your equipment, regardless of who manufactured it, or where it's located. Our goal is to provide customizable and scalable service solutions to meet your process control challenges.

We offer everything from calibration, startup, upgrades, automation, repairs and even the ability to provide the manpower you need – when you need it! We provide efficient, reliable and cost-effective solutions to optimize your applications through the most difficult and challenging times. We are available 24/7 to assist you and your process. Contact at 866.542.0205 or via email at info@techstar.com

OUR SERVICE CAPABILITIES

- Start Up
- Troubleshooting | Problem Solving
- Onsite Calibration Services
- Wireless and Flow Surveys
- Radiological | Nuclear Source Disposals
- Predictive Maintenance
- Condition & Vibration Monitoring
- Automation Solutions
- PLC, SCADA, VFD, Programmers
- Project Management
- Installation Supervision
- Training & Development
- Manpower

AVAILABLE 24 | 7

- On Demand
- Emergency
- Hourly - Daily – Weekly – Monthly Rates
- Semi-Annual & Annual Contracts
- In Person or Remote/Virtually



WE WORK ON ALL BRANDS & MANUFACTURERS

- All technicians are fully insured and drug/alcohol tested through DISA.

- Active Members of: ISNetworld, PEC Safety, Avetta, Browz, PICS and all local area safety councils



TRAINING & DEVELOPMENT SOLUTIONS

- **Technical Courses**
 - Theory, Basics, Advanced, Special Parameters
- **Custom Sessions**
 - Learn more about the equipment you have installed
 - Talk through your applications and learn how new technology can optimize your processes
- **Hands-On Application:** Operational Process Unit
- **Distance Learning:** Virtual & On-Demand Content

