



 **AM&C**
Applied Measurement & Control

www.appliedmc.com

ANALYTICAL



- **Chemgard® Photoacoustic Infrared Gas Monitors**
- Detects minute traces of hydrocarbons, solvents, alcohols, CO₂, CO and toxics



- **Density** – DSG and MiniTrac Detectors
- **Interface** – Multipoint Density Array Detectors
- **Weigh Scales** – Compact radiation detector for material conveyors
- **Source Holders** – Fireproof, Cast Steel, Low Activity, Structural Steel & others.
- **Survey Meters** – Portable test meters.



- **Liquid Analyzers & Sensors**
 - **pH & ORP** for process & municipal service
 - **Conductivity** Contacting & Inductive
 - **Portable pH** and Conductivity Analyzers
 - **Dissolved Oxygen**
- **Gas Analyzers**
 - **O₂ & Humidity** In-Situ Zirconia
 - **Gas Density** & H₂ Purity
 - **Chromatographs** for Process Gas
 - **TDLS** Tunable Diode Laser Analyzers
 - **Sample Conditioning Systems**



- **Refractometers for Process Analysis**

CONTROL



- Airflow & Pressurization Controls for Process and Cleanrooms



- **Digital Indicating Controllers**
 - UT100 - Low Cost Temperature Controllers
 - UM Series - Digital Indicators
 - UT Advanced- Digital Controllers
 - UP Advanced - Ramp / Soak Controllers
 - UT Advanced - FM Limit Controllers
- **Single-loop & Multi-loop Controllers**
 - YS1000 Series Process Controllers
- **Nuclear IEEE Qualified Controllers**
 - YS1000 Series Process Controllers
- **Programmable Logic Controller (PLC)**
 - FA-M3 High Speed Controller
- **Distributed Control System (DCS)**
 - CS3000 Integrated Production Control System (DCS)

DATA ACQUISITION AND RECORDING



- **Video Recorders**
 - GX10 & GX20 Touch Screen, up to 450 Input Channels
 - FX1000 OEM Recorders
- **Nuclear IEEE Qualified Video Recorders**
 - DX1000 & DX2000 Advanced
 - DX1000N Removable Chassis
- **Portable Video Recorder**
 - GP10: from 10 to 100 universal inputs
 - GP20: from 10 to 450 universal inputs
- **Data Acquisition Systems**
 - MW100 Stand Alone, from 10 – 300 inputs
 - GM10 – Expandable up to 500 Input Channels
 - Ethernet connectivity built in
 - Web-based configuration & monitoring
- **Software**
 - GA10 Scalable, user configurable, web enabled
 - DAQWORX™ Data Acquisition Software
 - DAQ-OPC OPC Server / Interface
 - TUS Temperature Uniformity Survey – ASME2750-E Compliant
- **Chart Recorders**
 - uR10000 100 mm Chart, up to 6 Inputs
 - uR20000 180 mm Chart, up to 24 Inputs
- **Power Monitors**
 - Powercert PR300 Power Meter
 - Juxta Power Transducers
 - Juxta Signal Conditioners

WIRELESS & SCADA



- **Wireless Transmission Systems**
 - Industrial I/O and protocol interface radios.
 - Industrial Serial I/O Expansion
 - Wireless Ethernet
 - Wireless I/O & telemetry modules
- **Plant Wide Field Wireless**
 - ISA100.11a Standard
 - Pressure Transmitters
 - Temperature Transmitters
 - Multi-Input Transmitters
 - ISA100.11a Gateway
- **Network based Control System**
 - Stardom Reliable and Low-cost SCADA/RTU Communications Using GPRS and Dynamic IP
 - FAST/TOOLS Integrated SCADA Software

GAS DETECTION



Gas Detection for Toxics, Combustibles, & Oxygen

- **Detectors Sensors & Transmitters**
 - Ultima® X Series Gas Monitors - Catalytic, electrochemical and infrared gas detection
 - Toxgard® II Gas Monitor - Combustible & Toxic Monitor, O2 Deficiency
 - Chillgard® Amonia (NH3) Gas Monitor
 - Chillgard® Refrigerant Monitors
 - Z Gard® Combo Gas Monitor
 - TRIGARD® Gas Monitor
 - Tri-Gas Wet Well Detection System
 - Ultima OPIR-5 Open Path Infrared
 - UltraSonic™ EX-5 Gas Leak Detector
- **Controllers & Systems**
 - SupremaTouch Programmable Controller
 - GasGard XL
 - ModCon 75
 - 9000 Series
 - Model 10K Integrated Fire & Gas Systems
 - ZGard C & CX Controllers
- **Flame Detectors & Transmitters**
 - FlameGard® 5 UVIR Detectors
 - FlameGard® 5 UVIR H2 Detectors
- **Calibration & Testing**
 - Kits – including regulators, tubing, gases, and carry cases
 - Gases – Certified gas bottles
 - Controllers & Calibrators
- **Portable Gas Detection**
 - Multi-Gas Portable Detectors
 - Single-Gas Portable Detectors
 - Automated Test & Calibration

HEAT EXCHANGERS - HEATERS



Heat Exchangers

- Shell & Tube / Small Coolers
- Plate & Frame (Gasketed)
- Brazed Plate
- Air-Cooled Condensers
- Custom Shell & Tube
- Brazed Plate



Water Heaters

- Constantemp Feedforward Steam Hot Water Heaters
- LES Series Packaged Steam-fired Heater
- Constantemp Skidded Heater Systems



Self Actuated Regulators & Heaters



Flow Meters for Steam, Liquid, Gas & Slurry

- **Digital YEWFLO vortex flowmeters**
 - MultiVariable
 - Cryogenic
 - High Temperature
 - Reduced Bore Type
- **ADMAG Magnetic Flowmeters**
 - Wide Range of Sizes - 0.10" to 40"
 - Submersible
 - Sanitary
 - Explosion Proof
 - ADMAG AXR - Two-wire Series
 - ADMAG CA – Capacitance Sensor

- **Coriolis Flow Meters**
 - Rotamass Mass Flowmeter
 - Liquid & Gas Service
 - Density Output
- **Verabar Pitot Insertion dP Flow Meters**
 - Gas, Steam, & Liquid Service
 - Hot Tap Assemblies
 - High Pressure & Temperature Ratings
 - Large Stacks & Duct Sizes
- **Multi-Variable Flow Transmitters**
 - Multivariable Outputs & Steam Density



Thermal Dispersion Flowmeters for Air & Gas Service

- Direct Mass Flow Measurement
- Insertion – Inline – Hot Tap Installations
- 1/4" up to Large Duct Line Sizes
- High Temperature & High Purity Sensors
- OEM Custom Versions

VORTAB® Flow Conditioners

- Model VIP – Insertion Panel 2" – 40" Pipe Size
- VMR Flow Conditioner Meter Run



Mass Flow Controllers & Meters

- For Gases, Vapors, & Fluids
- Thermal Meters, Both Metal and Elastomer Sealed
- High Purity and High Temperature Applications
- Coriolis Meters with Hart Communication

Variable Area Flow Meters (Rotameters)

- For Gases, Liquids and Steam
- Glass, Metal, & Plastic Meters

Pressure & Vacuum Products

- Controllers & Transmitters
- High Accuracy & High Purity Applications

Vaporization Products

- Chemical Vapor Deposition
- Depositing Thin Films for Enhanced Thermal, Optical or Hardness Characteristics
- Water Vaporization/Humidification

Semiconductor Products

- High & Ultra-High Purity Gas Mass Flow Controllers & Meters



Flow Switches for Liquid, Air & Gas

- Insertion
- Inline
- Sanitary
- OEM Custom Versions



Flow Meters for Liquid, Gas, & Steam

- **Advanced dP Flow Measurement**
 - V-Cone Flow Meter
 - Wafer-Cone – Line Sizes up to 6 Inch
- **Insertion Magnetic Flowmeters**
 - FPI – Full Profile Insertion Magnetic Meter
 - SPI - Single Point Insertion Magnetic Meter



Flow Meters for Liquid & Gas

- **Turbine Flow Meters**
 - Process, Test Meters, Sanitary, & Low Flow Meters
 - Flow Computers & Batch Controllers
- **Positive Displacement Flow Meters**
 - High Viscosity, High Pressure Meters
 - Ultra-Low Flow Rates
- **Ultrasonic Flow Meters**
 - SLF-100 3/8" to 3/4" PFA Tubing
 - SLF-200 1" to 6" Line Sizes
 - SLF-500 1" to 12" Line Sizes



- **Air Flow Measuring Stations & Probes**
 - VOLU-probe/SS Stainless Steel Pitot Traverse Probe
 - FAN-E Airflow Measuring Station
 - LO-flo/SS Pitot Traverse Station
 - ACCU-flo Nozzle Pitot Flow Station
 - Combustion Airflow (CA) Measurement Station
 - CEM Continuous Emissions Monitoring Stations
 - STACK-probe/SP
 - Static Air Probes & Shields
- **Transmitters & Controllers**
 - VELTRON - Ultra Low Range Transmitters
 - MASSTRON – Transmitters with Density Compensation
 - VEL-trol – Transmitters with control output



- **Radar Level**
 - VEGAPULS - Non-Contact Radar Gauges
 - VEGAFLEX - Guided Wave Radar
- **Ultrasonic Non Contact Level**
 - VEGASON Series
- **Capacitance Level**
 - VEGACAP Series
- **Submersible & Pressure Level**
 - VEGABAR
 - VEGAWELL
- **Point Level**
 - VEGA SWING Vibrating Elements for Liquids, and Bulk Solids
 - VEGAWAVE Vibrating Fork Level Switches
- **Indicating & Adjustment**
 - VEGADIS Displays
 - VEGAMET Displays & Controllers
 - VEGASCAN Multi Tank Level Control & Web Access
- **Radiation Based Level**
 - FiberFlex
 - FiberTrac 31
 - Solitrac 31
 - GM-17 Point Level



Hydrostatic Level

- Flange & Tank Mounted Transmitters



Level & Interface Switches

- FlexSwitch® Series Thermal Switches
- Sanitary and High Purity Styles
- Interface Detection Switches



Single and Multi-Point Level Sensors

- RF Capacitance Probes
- Conductivity Switches
- Continuous Level Controls



Level Switches

- Flanged & Sealed Chamber Level Switches
- Top Mounted Displacer & Float Level Switches
- Side Mounted Level Switches
- Single & Dual Point Ultrasonic Switches

TEMPERATURE



Infrared Non-Contact Temperature Sensors

- Compact Series – Great for OEM applications
- Thermalert Series – High Performance – Industrial Applications
- Marathon Series – High Performance 1-Color, Ratio (2-Color), Fiber-Optics
- Linescanners - Thermal Imaging for continuous sheet, web-based, and discrete manufacturing processes



Infrared Non-Contact Temperature Sensors

- Linescanners
- Modline Series
- Color, Ratio (2-Color), Fiber-Optic Thermometers



Temperature Sensors & Assemblies

- RTD's & Thermocouples
- Thermowells & Connection Heads
- OEM - Custom Products & Assemblies



Temperature Transmitters

- YTA50 & YTA70 Low Cost Head Mount Style
- YTA110 - Universal Input RTD, TC
- YTA310 – High Accuracy Universal Input
- YTA 320 – Dual Sensor Inputs

Temperature Sensors & Assemblies

- RTD's & Thermocouples
- Thermowells & Connection Heads

PRESSURE



Pressure Transmitters

- **DPHarp "EJA" Pressure Transmitters**
 - Differential, Gauge & Absolute Transmitters
 - Flow Transmitters with Integral Orifices
 - Tank Mounted Level Transmitters
 - Remote Seals & Capillaries
- **DPHarp "EJX" High Performance Transmitters**
 - Multi-Variable Mass Compensated Outputs
 - Differential, Gauge & Absolute Transmitters
 - Flow Transmitters with Integral Orifices
 - Tank Mounted Level Transmitters
 - Remote Seals & Capillaries
 - PK200 current-to-pneumatic (I/P) converter



Pressure Transmitters

- Ultra Low Range Transmitters
- Pressure Sensing Elements
- MASS-tron II "Multi-Variable" Transmitters

PRESSURE



Pressure Switches & Transmitters

- **Pressure Switches**
 - Explosion Proof
 - Weatherproof
 - Hermetically Sealed
 - Dual Hi-Lo - Weatherproof
 - (Pressure/Vacuum/Compound)
 - UL/CSA/ATEX/FM Approvals
- **Pressure Transmitters**
 - Compact loop-powered
 - Low Cost Fixed Ranges from 5 to 2000 psi
 - Immersible, Fixed Range
 - Explosion Proof Adjustable Range Transmitter

VALVES – REGULATORS – PRESSURE RELIEF



Steam & Thermal Fluid Controls

- **Linear Control Valves**
 - Aeroflow 1" – 16" High Performance Valves
 - DBOY 2" – 12" Single-Seated Balanced Cage Trim
 - D-Series 2" – 16" Globe Style
 - Class DLO 1" – 4" Cage Retained Seat
 - 3 Way ½" – 12" Control Valves
- **Rotary Valves**
 - K-Max 1" – 8" Sizes
- **Pressure Reducing Valves**
 - GPK Air Loaded PRV ½" – 4"
 - GPAK "Hard to Hold" for Gases & Vapors
 - GPK Steam-Piloted Self Contained PRV's
 - L Series Internal Pilot PRV
- **On/Off Valves**
 - Lawrence ½" – 4" Sizes
 - Electric & Pneumatic Actuators
 - Fire Safety Self Actuated Shut-Off
- **Actuators - Positioners**



Valves & Regulators

- General Purpose Control Valves
- Self Actuated Temperature Regulators
- Self Actuated Vacuum & Pressure Regulators



Pressure Relief

- **Rupture Disks**
 - Graphite Disks
 - Metal Disks
 - Sanitary Disks
 - Disk Holders
 - Burst Sensors
- **Explosion Relief Panels**

PROTECTIVE ENCLOSURES & SYSTEMS



- Enclosures for Instrumentation
- Sun Shades and Canopies
- Cabinets & Shelters
- Heaters – Explosion Proof & Non-EXP
- Factory Assembled & Tested Protection Systems

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Applied Measurement & Control Support Staff

Located in Fairport, NY our team of professionals stands ready to assist you with all your process control needs.

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If you have technical or product questions, need application help, or a detailed quotation, Diane and Justin would welcome the opportunity to help you.



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