



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
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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.

Inside Sales

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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