



Metrologics – Pump Automation and Control Systems

Metrologics is now proudly offering automation and control systems for liquid pumping systems. Our pump automation and control systems offer simple to advanced features detailed below.

Features:

- Class 1, Division 2, Groups C & D, Certified Controller
 - Available to system integrators for packaging
 - Available in fully integrated enclosure
- Local LCD Keypad Interface
- Built-in Flow Computer
 - Flow rates
 - Volumes (Today and Yesterday)
 - Local storage and reporting in multiple Engineering Units
- Data Logging
 - Optional Removable Micro SD card
 - User selectable and adjustable number of samples and reporting frequency

Examples:

 - Daily Volumes
 - Tank Levels
 - Discharge Pressure
 - Battery Voltage
 - Solar Voltage
 - Power Usage
 - Pump 1 Motor Current
 - Pump 2 Motor Current
 - System Total Current
 - Additional Inputs and Outputs

- Multiple Units of Measurement and Display
 - Inches
 - Centimeters
 - PSIG
 - KPa
 - Quarts
 - Liters
 - Gallons
 - Barrels
 - Etc.
- Graphical and Text Based User Interface
 - Administration
 - Status
- Advanced Control Algorithms
 - Pump control using ISA-PID
 - Auto Tuning
 - Bumpless Transfer
 - Anti-reset Windup
 - Flow Control
 - Other Proprietary Custom Controls Available
- User Configurable Alarms and Shutdowns
 - Transmitter Failure
 - Pump Failure
 - Pressure
 - Tanks
 - Voltages
 - Communication
- Additional Inputs and Outputs for Monitoring and Control
 - Digital Inputs
 - Digital Outputs
 - Optional Expansion I/O Modules
- 3 Communication Ports
 - RS232, RS485, CAN, Radio, Zigbee (user selectable)
 - Optional Port 1 Selection for Internal Ethernet, or Cellular
 - CAN bus for networking and remote I/O Modules
 - Extensive Modbus Register Map for SCADA interface
- Optional Self Contained Solar Charged DC Power System
 - 12 or 24 VDC
- Custom Functionality Programming Services Available
- End to End Data Acquisition and Information System Web Portal Available

- Cellular or Satellite communications systems infrastructure
- Hosted Database with Long-Term Storage
- Customizable User Interface, accessible from any browser or smart device
- Advanced information and reporting tools
- Report by Exception alarming (text message, email, IVR, voice)
- Complete remote control interface to remote site
 - Send rate setpoints to remote pumps
- Stand-Alone SCADA system licenses available with custom programming services
- Low Power Operation
 - Lower installation and total site costs
- Configurations (per controller)
 - Gas/Air pneumatic powered pumps
 - DC Electric powered pumps
 - Single and 3-phase (PWM)
 - AC VFD powered pumps
 - Multiple controllers can be networked using either the CAN bus or Ethernet for large system networks

To contact us with your project needs:

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