

PumpRiO

Multi-Line Pump w/PLC based control and Edge Gateway

Portable, Real-Time, Multi-Line Pump system with PLC & Edge Gateway for use in industrial or remote field locations

PLC w/Edge Gateway

Real-Time Pump control and management

Smart Edge Gateway with custom analytics and cloud connectivity

Cloud based dashboard with multi-device management features (AriO Maestro)

AWS Edge Platform

HARSH ENVIRONMENTS

Up to 10,000psi

IP67 rated connectors

Operating (Storage)
-20 to 80 deg.C
(-40 to 85 deg.C)

NEMA 4x Enclosure

ESD options inbuilt

CELLULAR/WIFI CONNECTIVITY

Global Band with LTE
Cat-4 4G / 3G / 2G
Communication

2.4, 5.0 GHz IEEE 802.11
b/g/n/ac wireless



BENEFITS

- Fully Automated Multi-Line Pump system
- Custom PLC for Pump Control, Pressure/Flow monitoring
- Seamless integration with Edge Gateway for REMOTE pump control, cloud data logging, visualization and historian support
- Safely manage multiple devices across a wide area network (Remote and Local ESD)
- Cost effective and scalable architecture to accommodate additional sensors
- “App” and PLC updates possible with over the air update schedule
- Standard industry protocols - Modbus over TCP/IP or RS-232/RS-485
- IP67 components in NEMA 4x enclosure

APPLICATIONS

- Assembly and Test locations – Industrial, Workshop, Lab, Remote Environments
- Real-Time pump control and monitoring with milli-sec response
- Edge/IIoT Conversion for legacy test systems (Industry 4.0)
- Oil & Gas, Utilities, Power Management, Other industrial
- Safety Critical - Harsh area and offshore locations
- Multi-Device management across wide geographical spread



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Technical Specifications



TECHNICAL SUPPORT

24X7 Technical Support in conjunction with ArIO Maestro

ZERO DOWNTIME

Alarm monitoring and remote system management features limits downtime and physical intervention

TURNKEY SOLUTIONS

We design custom solutions based on your application requirements with minimal lead-time

Visit us at:

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Power	100-240VAC, 50/60 Hz
Memory	Up to 32GB eMMC Flash memory
Micro SD Card	Yes, Update Programs / Kernels
I/O Measurements	
Calibrated Pressure Range	0-3000psi, 0-5000psi, 0-10,000psi
Calibrated Flow Range	Configurable
Hydraulic Output	Two (2) Output lines, Independent Control
Pump Type	Pneumatic (Air Driven)
Max. operating pressure	Up to 10,000 psi
Sensors	Pressure, Flow, Tank Level
Compatible fluids	Diesel Fuel, Hydraulic Oil, Kerosene, Mineral Spirits, Motor Oil, Water
Communication Interfaces	
USB-A Ports	One (1) USB 2.0 port
Serial Ports	One (1) RS232 or One (1) RS485
Wi-Fi	2.4 GHz, 5.0 GHz IEEE 802.11 b/g/n/ac wireless
Cellular	LTE Cat-4 4G / 3G / 2G Support, Global Band
Ethernet	Gigabit Ethernet Connector
Modbus Networking	Modbus Master/Slave; Modbus over TCP/IP or RS-232/RS-485
Edge/IIoT Technology	
Edge Platform	AWS IoT
IoT Device Management	ArIO Maestro
Features	Remote sensor configuration; Automated Data Logging and Alerts
Data Management & Visualization:	Cloud based historian and analytics, Offline mode, Edge historian
Information Security	Secure HTTPS and MQTTS communication, User access control
Software Updates	Over-The-Air (OTA) Firmware and Edge App Updates
Environmental	
Storage Temperature	-40 to 85 deg.C
Operating Temperature	-20 to 80 deg.C
PLC/Edge Unit Enclosure	Precision Cast AISI12 (LM24) Aluminium Alloy
Enclosure Certification	Ex ia (Zone 0) and Ex ta (Zone 20), Zone 21, Zone 22