

AQUAVX™

AQUAVX PROPLUS REMOTE MONITORING DEVICE



HIGHLIGHTS

- Remote monitoring and control solution without the complexities of a full-scale SCADA system
- Powered by the RemoteIQ™ Water cloud platform for real-time remote monitoring and control
- For mid-sized municipal, industrial and commercial water and wastewater applications
- Standard I/O includes ten digital inputs, two pulse inputs, five analog inputs, two analog outputs, five relay outputs, one RS-232 only port and one RS-232/RS-485 port with support for 32 Modbus Master Registers
- Duplex pump control interface with lead/lag and alternation features
- No networks to maintain, no engineering and no third-party licensing
- FirstNet compatible with optional LTE modem to ensure priority access to network communication

FEATURES

- Advanced display and local user interface
 - High-resolution, sunlight-viewable screen with color display
 - 13 buttons used for navigation, configuration and viewing
 - View run-times, cycles, levels, flow and totalized flow on the local display
 - Control pumps, valves and other field devices
 - View inflow, outflow and rain event totals
- Battery backup offers 18 hours standard with the option to expand up to 72 hours. Loss of AC power triggers an automatic switchover to the battery. DC supply voltage available for sensor loop supply
- RemoteIQ Water cloud-based platform:
 - 24/7 access from any mobile device, tablet or laptop
 - Scheduled and on-demand reports for run times, total inflow and outflow and alarm history
 - Alarm notifications via email, text or voice:
 - Excessive run times or cycles or excessive variation in pump run times or cycle
 - Exceeding limits on tank levels, pressure, flow rates or motor amps
 - Power failure and low battery level
 - Loss of cellular or Modbus communications
 - Rainfall exceeds the limit
- RS-232 and RS-485 with 32 Modbus Registers built-in
- Local relays can be automatically controlled based on preconfigured set points or conditions.
- Peer-to-peer communications are compatible with the Aquavx Pro and Aquavx ProPlus
- Configurable for all-in-one lead/lag pump control and monitoring applications
- Transport Layer Security (TLS), Security Sockets Layer (SSL), Multi-Factor Authentication (MFA) and SOC-2 compliant
- Surge protection for analog inputs





TECHNICAL DATA AND SPECIFICATIONS

MECHANICAL DATA

Weight	16 lbs without battery 23 lbs with battery
Enclosures	NEMA 4X
Dimensions W x H x D	11.83" x 13.45" x 6.31"
Operating Temperature	-30° to +70° C (-22° to +158° F)
Modem Op Temperature	-40° to +85° C (-40° to +185° F)
Display	4.3-inch WQVGA (480x272 pixels) color display
LEDs	3 system indicators (Amber, Blue, Red)

COMMUNICATIONS

Cellular Modem Options	LTE-M dual modem utilizing AT&T or Verizon FirstNet compatible modem available
Satellite Option	Iridium satellite modem (doesn't support peer-to-peer)
Serial Ports	1 – RS-485 / RS-232 1 – RS-232 only Only 1 user port is available if cell or satellite is present
USB Port	For configuration and firmware updates
Ethernet	Modbus TCP interface

ELECTRICAL DATA

Battery	12 VDC output Built-in battery charger with 18 to 72 hour backup supply
Primary Power	Universal AC input (100-240VAC)
Field Wiring	All I/O wiring uses quick-disconnect pluggable connectors (16-22 AWG)

INPUTS / OUTPUTS

Digital Inputs	10 (active to ground or +V)
Analog Inputs	5 (4x 4-20 mA, 1x 0-5V)
Pulse Inputs	2
Relay Outputs	3 each; form C relay outputs, dry contact, SPDT NO-NC, rated 2 A at 30VDC resistive, 0.4 A @ 120 VAC resistive 2 each; form C relay outputs, selectable for high side or low side switching, SPDT NO, rated 2 A at 30VDC resistive, 0.4 A @ 120 VAC resistive
Analog Outputs	2 (voltage or current, configurable)
Modbus I/O	Configurable as Master or Slave 32 Modbus registers, configurable as coil, holding, input status or input register
A/C Voltage and Current	3 phase voltage and current inputs

ACCESSORIES

Solar Kit	Complete solar kit with accessories
Antenna	High gain OMNI antenna
Cable	50-foot antenna cable

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EN-2026-06-V4

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