Aquavx

Easy-to-use, reliable, low-cost solution to remote monitoring

The Aquavx Scout provides everything you want in an alarming and notification system with the performance you expect from an Antx product.

The Aquavx™ Scout is an industrial alarm notification and remote monitoring system designed for the water and wastewater market. It provides monitoring and control of up to 74 inputs and outputs: Standard physical inputs include 10 digital, 4 analog and 2 output relays. 58 standard Modbus I/O.

Local-user features

- View current run-times, cycles, tank levels, etc.
- View flow rates and totalized flow
- View inflow and outflow totals that are volumetrically computed locally
- View rainfall rate and total
- View alarm history
- Dynamic scrolling display - you decide what data is automatically shown on the display
- Control pumps
- Operator login and automatic alarming for man-down situations
- Three 'radio-button' keys are configurable to view any available information with a single key press
- View and change programming

Alarm notification

- Email and text messaging
- Voice call out available
- Alarms for:
  - Excessive run-times or cycles
  - Excessive variation in run-times or cycles between pumps
  - Exceeding limits on tank levels, pressure, flow rates, motor amps, etc.
  - Power fail
  - Low battery level
  - Loss of cellular communication
  - Loss of Modbus communication
  - Rain fall exceeds limit

Reporting

- Automatic and on-demand reports for all pump run-times over any time period
- Automatic and on-demand reports for total inflow and outflow over any time period
- Alarm history and complete audit trail

Programming made simple

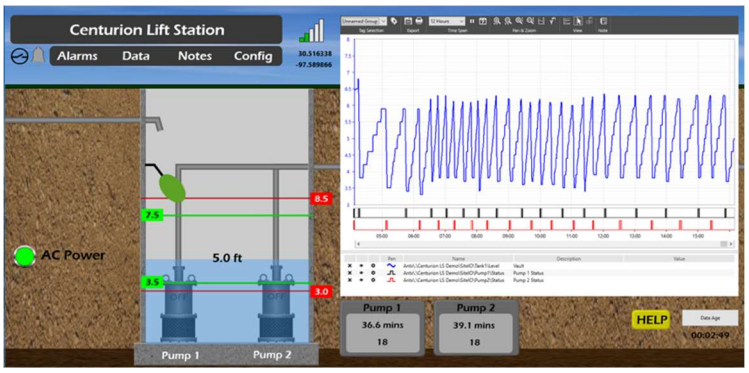
- All programming options are conveniently presented on the LCD display so you can select them using the keypad
- Help Desk for all programming and operational questions
- Historical events including all alarms, and relay controls are stored in the Event Log which can be retrieved locally

Local relay control

- The relays can be automatically controlled when any monitored channel exceeds a limit or condition. For example, they can be activated on a high level and deactivated on a low level.
- Multiple Aquavx units can communicate with each other to create system-wide controls. For example, turning on wells to fill elevated tanks.

Online viewing and controls

- Current and previous day data and status
- All current and historic alarms
- Overview of all or a subset of sites on a map
- Overview of all or a subset of sites in tabular form
- Control remote pumps individually or in groups
- Enter and view historic site maintenance records
- Smartphone accessible



Physical Characteristics

Analog Inputs	4 Analog Inputs are capable of interfacing directly to 4-20ma, 0-20ma, 0-5V, 1-5V, signals. Analog inputs can be flowmeters to provide flow rate and accumulated total flow)
Digital Inputs	10 Dry Contact/Digital Inputs are capable of interfacing directly to dry contacts or digital input signals with voltages up to 25VDC. Any digital input can support pulses for rainfall or flowmeters (with flow rate and accumulated total flow)
Relay Outputs	2 relays are programmable to activate automatically when any channel goes into alarm, or upon local or remote request. The relay can deactivate automatically when all channels have returned to the normal condition, upon a programmable timer expiring or upon local or remote request.
Modbus I/O	20 Modbus RTU read coil/input status channels. Perform like physical digital inputs. 30 Modbus RTU read holding/register channels. Perform like physical analog inputs 8 Modbus RTU write coil digital channels
Local Display	View all current data in engineering units. Automatic rotating display of any data selected for quick viewing of complete system status including current alarms, values and signal strength.
Cellular Modem	LTE ATT or Verizon
Electrical Protection	Solid state surge protection provided on digital input, analog input, serial port, and telephone circuitry. All fuses are solid-state automatic resettable requiring no maintenance
Enclosure	Minimum rating shall be NEMA 4X, flush mount or sub-panel mount.
Environmental Limits	Temperature: 32 to 158ºF (0 to 70ºC) Humidity: 0-90% non-condensing @ 104ºF
Power Supply	15VDC, 1A, DIN-rail mount included.
Relay Output Rating	2 relays, 0.5A at 125VAC each
Dimensions	Front panel: 9.34"W x 6.72"H Enclosure: 8.2"W x 5.2"H x 3.6"D
Weight	1.8 lbs. (.81kg)
Field Wiring	All I/O wiring uses quick-disconnect pluggable connectors (14-22AWG)
Backup Battery	12-hour minimum included
Warranty	2-year