

Pump Automation Controller (PAC) Specification Sheet



FEATURES

- Remote Control: manual and scheduled
- Monitoring: flow, pressure, depth, energy, switch position, valve position
- Alerts: upon command, timed interval, state change/exception (pump start/stop, schedule start/running/stopped, reservoir low/high), panel power off/on
- Compatible with utility Automated Demand Response (ADR)

APPLICATIONS

- Irrigation / water pumping
- Food processing / cold storage
- Water and wastewater treatment
- Other electrical loads

SPECIFICATIONS

INPUTS

- 1 x 600 VAC digital (pump on/off status)
- 2 x 240 VAC digital¹ (auxiliary AC powered equipment status)
- 7 x dry contact digital (flow, power pulse count, valve position)
 - 1 x 600 VAC analog (voltage supplied by utility)
- 4 x sensor analogs (4-20mA / 0-5V : pressure, reservoir depth)

¹ - two additional if 240 VAC not used

COMMUNICATION

- 1 x 32GB MicroSD card (status logging)
- 1 x USB client port (local programming/configuration)
- 2 x RS232/422/485 ports² (modbus: VFD, control equipment status)
- 1 x Ethernet port² (local debug, modbus: VFD, control equipment status)

² - modbus (default), other protocols available upon request

RELAY OUTPUTS

- 1 x 600 VAC, (DR: remote pump stop/off, run enable; scheduling: local pump stop/off)
- 1 x 240 VAC, (scheduling: local pump run/on)

PROCESSOR & MEMORY

- ST ARM Cortex-M7
- 32MB SDRAM/16MB flash
- Secure hardware boot, storage, updates
- Temp: -40° to +85° C (-40° to +185° F)

POWER SUPPLY

- Input voltage(s): 24VDC, fused 120/240/480 VAC (single or three phase, [L-N / L-L]), GND
- Output sensor power voltages: (5 or 12 VDC)
- Battery backup subsystem

WIRELESS CONNECTIVITY

- Verizon 4G LTE
- Open ADR 2.0a certified