

VARIABLE FREQUENCY DRIVE (VFD) CONTROL PANEL



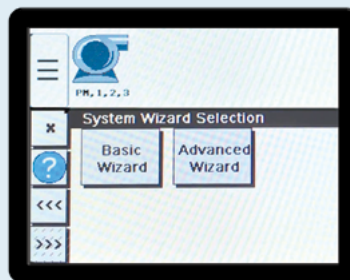
THE POWER OF VFDS

A VFD panel delivers more than energy savings. With simplified startup, precise pump control, and cloud-based monitoring, our technology reduces complexity while improving system performance and reliability.



QUICK STARTUP & SIMPLE TOUCHSCREEN OPERATION

- 1 Easy-to-read system status on one screen
- 2 Quick wizard guides basic configurations
- 3 Built-in user help
- 4 Login prevents unauthorized access



SPECIFICATIONS

- ◆ Horsepower: 10 to 600 HP, single pump
- ◆ Voltage:
 - 240V/60Hz (1 and 3 Phase)
 - 480V/60Hz (1 and 3 Phase)
 - 600V/60Hz (3 phase)
- ◆ Rated for ambient temperatures -6°C to 45°C (20°F to 113°F)
 - VFD sizing is based on 45°C ambient temp and 3,300 ft elevation. Contact factory for higher elevation derates.
- ◆ For custom HP or options, contact factory

CONVENIENT DESIGN

- ◆ User-friendly controls with color touchscreen
- ◆ Circuit breaker service entrance rated disconnect

COST SAVINGS

- ◆ Up to 25% energy savings—optimize power use
- ◆ Extend equipment life—reduce pump stress
- ◆ Lower maintenance costs—minimize downtime

HIGH RELIABILITY IN HARSH ENVIRONMENTS

- ◆ Outdoor UL TYPE 3R ratings
- ◆ Lightning arrestor provides equipment surge protection
- ◆ Efficient forced air fan/filter

STANDARD FEATURES

- ◆ Programmable Logic Controller (PLC) and door mounted color touch screen
- ◆ Circuit breaker service entrance rated disconnect
- ◆ Fan/Filter panel cooling
- ◆ Log-in prevents unauthorized access
- ◆ N3R enclosures
- ◆ Control up to 3 lag pumps in standard software—advanced features including time delay, pressure drop and restart
- ◆ Lightning surge arrestor
- ◆ 3", 6", 8" and 12" painted steel legs
- ◆ Screen based speed potentiometer
- ◆ 2 isolated analog inputs for PID pressure regulation, level sensing, output pressure, input pressure and flow
- ◆ 35ka SCCR panel rating
- ◆ Remote start relay (24V AC/DC)
- ◆ 1 digital input flow
- ◆ Terminal blocks & wiring for utility shut down
- ◆ Thermostat control of fans (cooling fans operate when VFD isn't running)
- ◆ Level sensing or suction pressure control via PLC touchscreen
- ◆ Pressure transducer kit included for pressure regulation
- ◆ Pump retirement—shut down on frequency, flow or amps/power
- ◆ Easy and quick servicing of intake and discharge air filters
- ◆ Power monitoring
- ◆ Power and terminals for flow meter, level sensing and motor winding heaters

AVAILABLE OPTIONS*

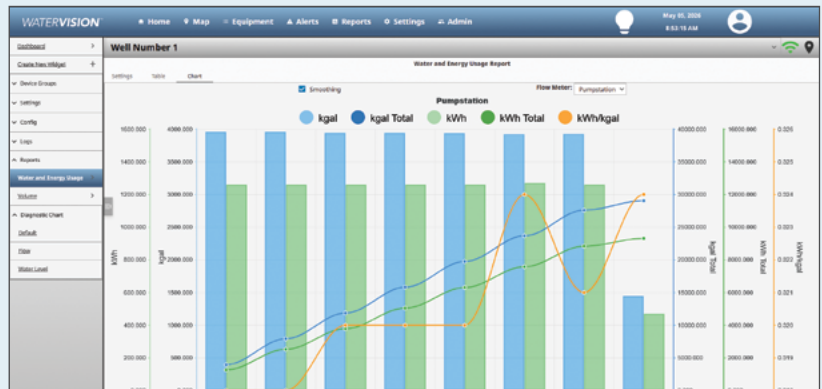
- ◆ Cloud-based telemetry
- ◆ Motor winding heater circuitry
- ◆ Integrated harmonic filters with contactors
- ◆ RayCap StrikeSorb® surge arrestor kit
- ◆ Submersible motor panels with DV/DT filters
- ◆ Temperature sensor—monitors interior panel temperature
- ◆ Harmonic filters to meet IEEE519 requirements

WATERVISION™

Stay connected and in control of your pump station with WaterVision. This next generation of advanced cloud telemetry now gives users equal control on any mobile or desktop device.



Dashboard shows key information in one spot



Build water usage summaries to meet compliance requirements



For more information visit
watertronics.com or call 1-800-356-6686.



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