

Powerpack™ Express Economical, Rugged, Reliable, And Ready To Ship Model FP4

POWERPACK EXPRESS, FP4

FP4 is a full featured high quality float switch based pump control panel suitable for duplex lift station (pump down) or water pump station (pump up) control of motors from ½ HP up to 50 HP. The enclosure is available in a wide variety of ratings and exterior finishes that accommodates a comprehensive selection of options ranging from emergency power receptacle, sensors, telemetry/alarm dialer and other options not normally found in a pre-engineered pump control panel. Each unit is constructed of heavy duty full rated NEMA type starters and industrial rated components including the multi operational CB1000 pump controller. Each panel is quality constructed with ample room to access chassis mounted devices, factory tested and UL 698A Serialized Labeled.

Standard features include:

- High Quality NEMA Rated Enclosure with Dead Front Inner Doors & Print Pocket
- Service Entrance Rated Main Circuit Breaker
- NEMA Rated FVNR Motor Starters
- Run Lights & H-O-A Operators
- Running Time Meters
- Push Button Overload Reset Operators
- Model CB1000 float switch controller with high and low level alarm and multiple alternation modes.
- Intrinsically safe inputs for applications with sensors mounted in Hazardous Environments.
- 14 AWG Minimum Control Wiring With Wire Numbers
- UL Serialized Label (698A)

Optional Features

- Electrical Surge Protection
- Power Monitor For Each Motor
- Emergency Generator Receptacle
- Top Mounted High Visibility Red Strobe - Common Alarm Light
- Isolated Alarm (Power Phase Failure, Wet Well Level Alarm) And Status (Pump Run) Contacts To Terminal Blocks For Connection To External Equipment
- Thermostatically Controlled Condensation/Freeze Protection
- Overtemp and Seal Fail Monitoring
- GFI Duplex Receptacle

Use the following table to select the Powerpack Express configuration that is right for you:

- (1) Incoming Service Voltage (Service Entrance Rated)
 - 208 VAC 3 Phase, 4 Wire, 60 Hertz
 - 240 VAC 1 Phase, 3 Wire, 60 Hertz
 - 240 VAC 3 Phase, 3 Wire, 60 Hertz
 - 240 VAC 3 Phase, 4 Wire, 60 Hertz
 - 480 VAC 3 Phase, 3 Wire, 60 Hertz
- (2) Surge Protection (Incoming Service Only) Required
- (3) Power/Phase Failure Monitors Required
- (4) Cabinet Heater (100 Watt) w/High Temp Cutout – Condensation/Freeze Protection Required
- (5) Circuit Breaker Brand & Interrupt Rating Select
 - Siemens (AIC-65K @ 240/18K @ 480V)
 - Siemens (AIC-100K @ 240/65K @ 480V)
 - Square D (AIC-25K @ 240/18K @ 480V)
 - Square D (AIC-100K @ 240/65K @ 480V)
- (6) Alarm Dialer Provides Offsite Alarm Notification of Station Alarms (Customer to provide dial up phone line service connection) required
 - Provide 13" x 11" Panel Space For Customer Provided and Mounted Dialer
 - RACO CB 4 Four Channel Alarm Dialer w/Power Fail
 - Sensaphone Express 4 Channel Alarm Dialer w/Power Fail
 - Mount & Wire Customer Provided RACO CB4 Alarm Dialer
 - Mount & Wire Customer Provided Sensaphone Express Alarm Dialer
- (7) Panel Insulation (3/4" R Value 4) (Recommended For Environments Subject to temperatures below 32 Deg F) Required

- (8) Seal Fail & OT – Includes Indicators and Reset Push Button Operators (Typically required for Submersible Pumps) Required
- Siemens Standard (Probe Relay And OT Relay w/Pump Lockout) (Suitable for Fairbanks, KSB, and Others - Consult Factory)
 - Siemens Standard Overtemp Relay (No Seal Fail) (Suitable for Fairbanks, KSB ,and Others - Consult Factory)
 - Mount & Wire Customer Provided Flygt® MiniCAS II™ Modules
 - Mount & Wire Customer Provided Ebara® PumpCon™ Modules
 - Mount & Wire Customer Provided ABS® SealMinder™ Relay Modules & Siemens WT Std OT Relay
 - Mount & Wire Customer Provided Flygt® MiniCAS II™ Modules (Inner Door Mounted)
- (9) Contact outputs for level & motor status required.
- (10) Alarm Light (Top Panel Mounting) required.
- (11) Weatherproof Alarm Horn (Side Mounted and Includes Silence Push Button) required
- (12) Simultaneous Run Time Meter (Accumulates Time When Both Pumps Activated To Meet Demand) required
- (13) Push To Test Lights (Provides Quick Easy Method to Verify Light Operation) required
- (14) GFI Receptacle (Includes 10 Amp Circuit Breaker & GFI Protected Receptacle) required
- (15) Motor HP * See Voltage Ratings Below
 .5, .75, 1.0, 1.5, 2.0, 3.0, 5.0,
 7.5, 10.0, 15.0, 20.0, 25.0, 30.0,
 40.0, 50.0
- (16) Overload Relay Classification
- Class 10 Quick Trip (Recommended For Submersible Pumps)
 - Class 20 Standard Trip (Recommended For Open Air Mounted Pumps)
- (17) Main And Emergency Circuit Breaker
- Main Breaker Only
 - Main Breaker and Emergency Breaker
- (18) Emergency Receptacle (Units are Appleton Powertite Brand with Reverse Service – Hot Plug Feeds Dead Receptacle)
- 100 Amp Style 1 w/Angle Adaptor (3 Pin – Ground is through Receptacle Shell)
 - 100 Amp Style 2 w/Angle Adaptor (4 Pin – Ground is through Receptacle Shell and Pin)
 - 200 Amp Style 1 w/Angle Adaptor (3 Pin – Ground is through Receptacle Shell)
 - 200 Amp style 2 w/Angle Adaptor (4 Pin – Ground is through Receptacle Shell and Pin)
- (19) Enclosure: Size 48" H x 36" W x 12" D
- NEMA Type 3R – Painted Forrest Green
 - NEMA Type 3R – Painted ANSI 61 Grey
 - NEMA Type 3R – Painted Beige
 - NEMA Type 3R – 304 Stainless Steel
 - NEMA Type 3R – 304 Stainless Steel Painted Forest Green
 - NEMA Type 4 – Painted ANSI 61 Grey
 - NEMA Type 4X – 304 Stainless Steel
 - NEMA Type 4X – Fiberglass
- (20) Floor Stands 12" & Louvered Skirts (Material & Finish to Match Enclosure – not available in fiberglass) required.
- (21) Float Switch Sensors Required
- 5 Model LS Internally Weighted Floats w/60 Ft. Cable
 - 5 Model 9G Cable Mounted Floats w/60 Ft. Cable
 - 5 Model 9G Pipe Mounted Floats w/60 Ft. Cable
 - 5 Model 9G-EF Cable Mounted Floats w/60 Ft. Cable
 - 5 Model 9G-EF Pipe Mounted Floats w/60 Ft. Cable
 - Floats By Others
- (22) Pump alternation required.

*** Voltage ratings:**
 240 Volt 1 Phase 60 Hertz – Up to 10 HP
 208 Volt 3 Phase 60 Hertz – Up to 25 HP
 240 Volt 3 Phase 60 Hertz – Up to 30 HP
 480 Volt 3 Phase 60 Hertz – Up to 50 HP

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