

Intrinsically Safe Control Panels

Leading Edge Design

Alderon's intrinsically safe control panels are the perfect choice for sewage pumping applications that are classified as hazardous locations and require intrinsically safe float circuits. A simple selection guide makes selecting the correct panel for the job a simple task. Quick and easy installation is accomplished by our detailed terminal block wiring diagram that corresponds to the factory labeled float switches. This eliminates wiring errors and downtime. By using high quality components and professional workmanship, our control panels will provide years of trouble-free operation. When you need a reliable and affordable control panel, make Alderon Industries your number one choice.



Features

Enclosure
Thermoplastic for NEMA 1/4X

HOA Switch
Automatic or manual pump control

Green Pump Run Indicator

Fused Control Disconnect
(Provides on/off function)

Alternating Relay
(Duplex only)

IEC Motor Contactor

Field Wiring Terminal Block

Terminal Block Field
Wiring label

Ground Lug

Mechanical Float Switches
Patented switching mechanism

Float Switches Labeled
For easy field wiring

Alarm Fuse

Alarm Indicator
Top mounted beacon

Alarm Buzzer
Loud 100 db warble

Auto Reset
Horn silence

Test/Silence Switches

3-Year Warranty

Industrial Control Panel
Enclosed industrial control panels relating to hazardous locations with intrinsically safe circuit extensions (UL 698A)



SINGLE PHASE SIMPLEX 3 - 20 ft Control Switches Included (Add "X" for No Floats)

| Pump Volts | Pump Amps | NEMA 4X (Outdoor Enclosure) | | NEMA 1 (Indoor Enclosure) | |
|------------|-----------|-----------------------------|-------------------------|---------------------------|-------------------------|
| | | With Circuit Breaker | Without Circuit Breaker | With Circuit Breaker | Without Circuit Breaker |
| 120 | 0-15 FLA | 4000 | 4003 | 4006 | 4009 |
| 120 | 16-20 FLA | 4001 | 4004 | 4007 | 4010 |
| 120 | 21-30 FLA | 4002 | 4005 | 4008 | 4011 |
| 120/230 | 0-15 FLA | 4012 | 4015 | 4018 | 4021 |
| 120/230 | 16-20 FLA | 4013 | 4016 | 4019 | 4022 |
| 120/230 | 21-30 FLA | 4014 | 4017 | 4020 | 4023 |

SINGLE PHASE DUPLEX 3 - 20 ft Control Switches Included (Add "X" for No Floats)

| Pump Volts | Pump Amps | NEMA 4X (Outdoor Enclosure) | | NEMA 1 (Indoor Enclosure) | |
|------------|-----------|-----------------------------|--------------------------|---------------------------|--------------------------|
| | | With Circuit Breakers | Without Circuit Breakers | With Circuit Breakers | Without Circuit Breakers |
| 120 | 0-15 FLA | 4200 | 4203 | 4206 | 4209 |
| 120 | 16-20 FLA | 4201 | 4204 | 4207 | 4210 |
| 120 | 21-30 FLA | 4202 | 4205 | 4208 | 4211 |
| 120/230 | 0-15 FLA | 4212 | 4215 | 4218 | 4221 |
| 120/230 | 16-20 FLA | 4213 | 4216 | 4219 | 4222 |
| 120/230 | 21-30 FLA | 4214 | 4217 | 4220 | 4223 |

Ordering example grid →

ORDERING EXAMPLE

Single phase duplex control panel for pumps 21-30 Amps, 230 VAC, NEMA 4X enclosure, no circuit breakers = Part Number 4217.

For no floats = Part Number 4217X.

Add Option Codes as required (see back).



Leading Edge Control Products

Alarm Systems

Control Panels

Float Switches

Leak Detection Systems

Float Switch Operated (Empty Tank)

Intrinsically Safe Control Panels

THREE PHASE SIMPLEX 3 - 20 ft Control Switches Included (Add "X" for No Floats)

| Pump Amps | Pump Volts | NEMA 4X (Outdoor Enclosure) | NEMA 1 (Indoor Enclosure) |
|---------------|-----------------|--------------------------------|------------------------------|
| 1.0-1.6 FLA | 208/230/460 VAC | 4414 | 4417 |
| 1.6-2.5 FLA | 208/230/460 VAC | 4400 | 4407 |
| 2.5-4.0 FLA | 208/230/460 VAC | 4401 | 4408 |
| 4.0-6.3 FLA | 208/230/460 VAC | 4402 | 4409 |
| 6.0-10.0 FLA | 208/230/460 VAC | 4403 | 4410 |
| 9.0-14.0 FLA | 208/230/460 VAC | 4404 | 4411 |
| 13.0-18.0 FLA | 208/230/460 VAC | 4405 | 4412 |
| 17.0-23.0 FLA | 208/230/460 VAC | 4406 | 4413 |
| 20.0-25.0 FLA | 208/230/460 VAC | 4415 | 4418 |
| 24.0-32.0 FLA | 208/230/460 VAC | 4416 | 4419 |

THREE PHASE DUPLEX 3 - 20 ft Control Switches Included (Add "X" for No Floats)

| Pump Amps | Pump Volts | NEMA 4X (Outdoor Enclosure) | NEMA 1 (Indoor Enclosure) |
|---------------|-----------------|--------------------------------|------------------------------|
| 1.0-1.6 FLA | 208/230/460 VAC | 4614 | 4617 |
| 1.6-2.5 FLA | 208/230/460 VAC | 4600 | 4607 |
| 2.5-4.0 FLA | 208/230/460 VAC | 4601 | 4608 |
| 4.0-6.3 FLA | 208/230/460 VAC | 4602 | 4609 |
| 6.0-10.0 FLA | 208/230/460 VAC | 4603 | 4610 |
| 9.0-14.0 FLA | 208/230/460 VAC | 4604 | 4611 |
| 13.0-18.0 FLA | 208/230/460 VAC | 4605 | 4612 |
| 17.0-23.0 FLA | 208/230/460 VAC | 4606 | 4613 |
| 20.0-25.0 FLA | 208/230/460 VAC | 4615 | 4618 |
| 24.0-32.0 FLA | 208/230/460 VAC | 4616 | 4619 |

PANEL OPTIONS (For ALL Single and Three Phase Control Panels)

- A - Event counter
- B - Elapsed timer meter
- C - Auxiliary alarm contacts
- D - Lockable latch
- E - Alarm flasher
- F - Lightning protection
- G - 4th float for duplex, separates lag from alarm
- I - Redundant off float (also choose option Q)
- N - Thermal cut-out
- O - Seal failure circuit and indicator
- P - Single phase overload protection (specify amps)
- Q - Low level cut-out (redundant off) circuit
- R - External float weights
- S - Anti-condensation heater
- X - No floats

Place option letter behind part number.

CUSTOM CAPABILITY

Any panel can be designed to meet your needs. Our professional customer service quickly prepares quotes so you can bid your jobs fast. Submittals may be obtained upon request. Common applications for custom panels include: lift stations, irrigation systems, pressure booster systems, storm water and many more. Call for a complete quote.

Features

Enclosure

Thermoplastic for NEMA 1/4X

HOA Switch

Automatic or manual pump control

Green Pump Run Indicator

Fused Control Disconnect
(Provides on/off function)

Alternating Relay
(Duplex only)

Multi-Tap Transformer

IEC Motor Contactor

Motor Protective Switch

Field Wiring Terminal Block

Terminal Block Field
Wiring label

Ground Lug

Mechanical Float Switches
Patented switching mechanism

Float Switches Labeled
For easy field wiring

Alarm Fuse

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Top mounted beacon

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CS1030A