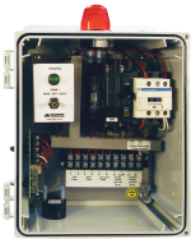
Float Switch Operated (Empty Tank)

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.

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

		NEMA 4X (Outdoor Enclosure)		NEMA 1 (Indoor Enclosure)	
Pump Volts	Pump Amps	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)

		NEMA 4X (Outdoor Enclosure)		NEMA 1 (Indoor Enclosure)	
Pump Volts	Pump Amps	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 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).

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 (NEMA 4X)
Door mounted indicator (NEMA 1)

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)

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ALDERON™ Industries
Leading Edge Control Products

Alarm Systems • Control Panels • Float Switches • Leak Detection Systems

PO Box 827 • Hawley, MN 56549 • (218) 483-3034 • Fax (218) 483-3036 • www.alderonind.com

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

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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

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L1023-Rev.C

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