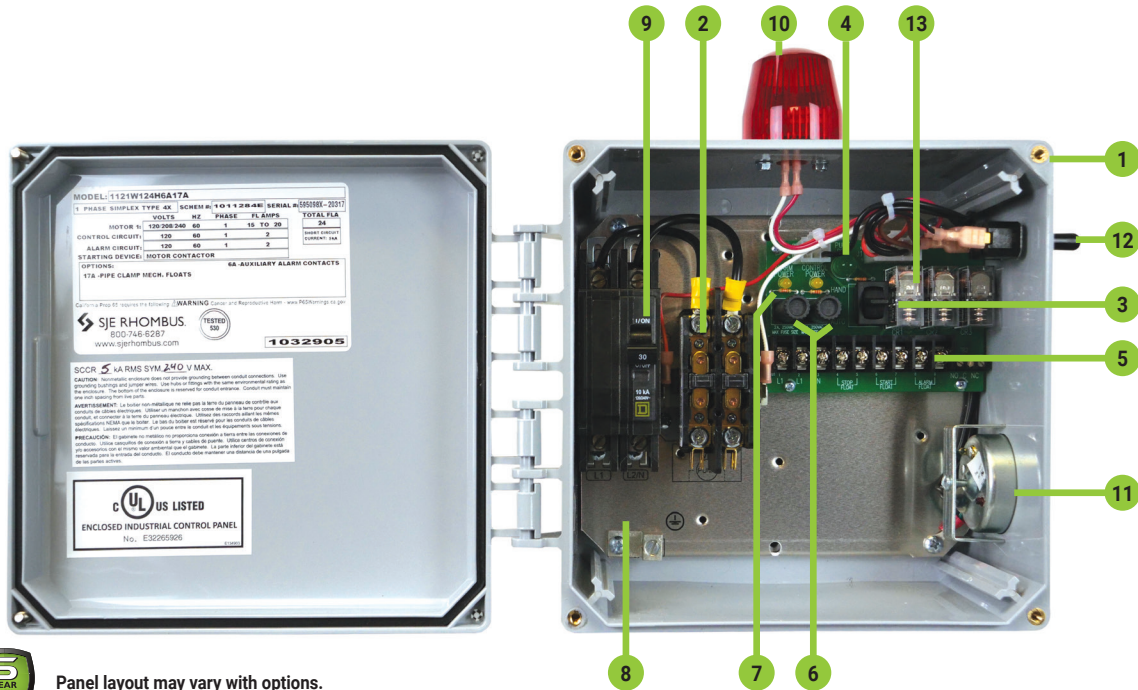# MODEL 112 CONTROL PANEL
Single Phase, Simplex Motor Contactor Control

Panel layout may vary with options.

The Model 112 control panel provides a reliable means of controlling one 120, 208, or 240 VAC single phase pump in pump chambers, sump pump basins, irrigation systems and lift stations. Two control switches activate a magnetic motor contactor to turn the pump on and off. If an alarm condition occurs, an additional alarm switch activates the audio/visual alarm system.

OPTIONAL FEATURE

• 34" (86.36 cm) Panel Mounting Post (Factory Installed). Includes Simplex Installation Kit (Enclosure upsized to 10" x 8" x 6" (25.4 x 20.32 x 15.24 cm). Max. Enclosure size 14" x 12" x 6" (35.56 x 30.48 x 15.24 cm)

COMPONENTS

1. Choice of NEMA 1 (steel for indoor use), or NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use) enclosure; enclosure measures 8 x 8 x 4 inches (20.32 x 20.32 x 10.16 cm)

2. Magnetic motor contactor

3. HOA switch for manual pump control (mounted on circuit board)

4. Green pump run indicator light (mounted on circuit board)

5. Float switch terminal block (mounted on circuit board)

6. Alarm and control fuses (mounted on circuit board)

7. Alarm and control power indicators (mounted on circuit board)

8. Ground lug

9. Circuit breaker (optional)

10. Red LED beacon provides 360° visual check of alarm condition - Note: NEMA 1 style utilizes a door mounted indicator in lieu of a beacon

11. Alarm horn provide audible warning of alarm condition (83 to 85 decibel rating) - Note: NEMA 1 style utilizes an internally mounted buzzer in lieu of horn

12. Exterior alarm test/normal/silence switch allows horn to be silenced in an alarm condition; alarm automatically resets once alarm condition has been cleared

13. Horn silence relay (mounted on circuit board)

Note: Options, voltage, and amp range selected may change enclosure size and component layout.

Note: Other options available.

Note: Schematic/Wiring Diagram and Pump Specification Label are located inside the panel.

Model 112 - Single phase, simplex motor contactor control.

112							
CONTROL PANEL	**ALARM PACKAGE**	**ENCLOSURE RATING**	**STARTING DEVICE**	**PUMP FULL LOAD AMPS**	**PUMP DISCONNECTS**	**FLOAT SWITCH APPLICATION**	**OPTIONS (LISTED BELOW)**

CONTROL PANEL	✓	112	Single Phase Simplex
ALARM PACKAGE		0	Select Options or No Alarm Package
		1	Alarm Package (includes test/normal/silence switch, fuse, red light, horn & float)
ENCLOSURE RATING		I	Indoor, NEMA 1 (metal)
		W	Weatherproof, NEMA 4X (engineered thermoplastic)
STARTING DEVICE		1	Magnetic Motor Contactor 120/208/240V
		9	Magnetic Motor Contactor, 120V only
PUMP FULL LOAD AMPS		0	0 - 7 FLA
		1	7 - 15 FLA
		2	15 - 20 FLA
		3	20 - 30 FLA (Enclosure Upsize Required)
PUMP DISCONNECTS		0	No Pump Disconnect
		4	Circuit Breaker 120V (select STARTING DEVICE option 9 above)
			Circuit Breaker 120/208/240V (select STARTING DEVICE option 1 above)
FLOAT SWITCH APPLICATION		H	Floats - Pump Down (select Option 17 below)
		L	Floats - Pump Up (select Option 17 below)
		E	EZconnex® Float Switch System (select Option 33 or 34 below) — with Alarm Package / without Alarm Package
		X	No Floats — with Alarm Package / without Alarm Package

PRICING WORKSHEET

Model 112 Base Price _____

Alarm Package _____

Enclosure Rating _____

Starting Device _____

Pump Full Load Amps _____

Pump Disconnects _____

Float Switch Application _____

Total Options _____

Enclosure Upsize _____

TOTAL LIST PRICE _____

ENCLOSURE UPSIZE: If you selected 3 or more of the ◆ options or one ◆◆ option, **add a one-time charge** for enclosure upsize.

OPTIONS	DESCRIPTION
1A	Red Beacon Only / No Audio (must select Option 1E if floats included)
1C	Horn Only / No Visual (must select Option 1E if floats included)
1E	Alarm Float
3A	Alarm Flasher
3B ◆	Manual Alarm Reset
4A ◆◆	Redundant Off (must also select Option 4D if floats are required)
4B ◆◆	Red Redundant Off Indicator and Alarm (must also select Option 4A)
4D	Redundant Off Float (must also select Option 4A and Option 17)
5A ◆	Thermal Cutout/Heat Sensor Auto Reset (for pumps with thermal switch leads)
5E ◆◆	Seal Failure Circuit & Red Indicator (2 wire)
6A	Auxiliary Alarm Contact, Form C
8A ◆	Elapsed Time Meter
8C ◆	Event (Cycle) Counter
9_A ◆◆	Pump Overload - Specify Amperage after Number 9 Followed by Letter "A" — Example: 912A = 12 amp pump — 0 - 25 FLA / 25 - 30 FLA
10E	Lockable Latch - NEMA 4X / Lockable Latch - NEMA 1
10F ◆	Lightning Arrestor (must select pump circuit breaker)
10K ◆	Anti-condensation Heater
10P ◆◆	Panel Mounting Post - Factory Installed, Includes Simplex Installation Kit (Enclosure Upsized to 10x8x6, Max 14x12x6)
11C	Additional NEMA 1 Remote Alarm Panel (must select Option 6A)
11D	Additional NEMA 4X Remote Alarm Panel (must select Option 6A)
14B ◆◆	Main Disconnect (rotary style, mounted through door, non-fused, padlockable in the OFF position, door interlock in the ON position (must select Circuit Breaker) — 0 - 20 FLA / 20 - 30 FLA

OPTIONS	DESCRIPTION
15A ◆◆	Control / Alarm Circuit Breaker
16A	10' Cord in Lieu of 20' Cord (per Float)
16B	15' Cord in Lieu of 20' Cord (per Float)
16C	30' Cord in Lieu of 20' Cord (per Float)
16D	40' Cord in Lieu of 20' Cord (per Float)
17A	SJE SignalMaster® / Pipe Clamp (per Float) - Mechanical
17B	SJE SignalMaster® / Externally Weighted (per Float) - Mechanical
17C	Sensor Float® / Internally Weighted (per Float) - Mercury
17D	Sensor Float® / Externally Weighted (per Float) - Mercury
17E	Sensor Float® Mini / Pipe Clamp (per Float) - Mercury
17F	Sensor Float® Mini / Externally Weighted (per Float) - Mercury
17J	Sensor Float® / Pipe Clamp (per Float) - Mercury
19T	TOA (Test/Off/Automatic) Switch and Pump Run Light through Door Mounted
19U	HOA (Hand/Off/Automatic) Switch and Pump Run Light through Door Mounted
19X	Door Mounted Pump Run Indicator
21A	SJE PumpMaster® in Lieu of ON/OFF Switches - Mechanical
21B	SJE PumpMaster® Plus in Lieu of ON/OFF Switches - Mechanical
21C	Super Single® in Lieu of ON/OFF Switches - Mercury
21D	Double Float® in Lieu of ON/OFF Switches - Mercury
21M	Double Float® Master in Lieu of ON/OFF Switches − Mechanical
33D ■	EZconnex® 3-Port, 25', with 10' Floats (3) / Pipe Clamp
33E ■	EZconnex® 3-Port, 50', with 10' Floats (3) / Pipe Clamp
33G ■	EZconnex® 3-Port, 25', with 20' Floats (3) / Pipe Clamp
33H ■	EZconnex® 3-Port, 50', with 20' Floats (3) / Pipe Clamp
34D ■	EZconnex® 4-Port, 25', with 10' Floats (3) / Pipe Clamp, Sealing Plug
34E ■	EZconnex® 4-Port, 50', with 10' Floats (3) / Pipe Clamp, Sealing Plug
34G ■	EZconnex® 4-Port, 25', with 20' Floats (3) / Pipe Clamp, Sealing Plug
34H ■	EZconnex® 4-Port, 50', with 20' Floats (3) / Pipe Clamp, Sealing Plug

■ EZconnex® mechanically-activated, narrow angle float switches with quick release connections

Part #	Pre-configured Panels for Easy Ordering
1019840	1121W114H17A
1020094	1121W114H6A17A