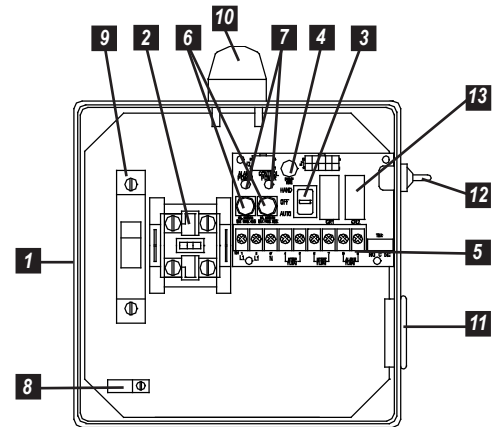# MODEL 112 Control Panel

Single phase, simplex motor contactor control.

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.

PANEL COMPONENTS

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

   * Options selected may increase enclosure size and change component layout.

2. **Magnetic Motor Contactor** controls pump by switching electrical lines.

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) provides pump disconnect and branch circuit protection.

Model Shown 1121W914X

STANDARD ALARM PACKAGE

10. **Red Alarm 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** provides audio 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 and light to be tested and 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: other options available.

FEATURES

- Entire control system (panel and switches) is UL Listed to meet and/or exceed industry safety standards

- Dual safety certification for the United States and Canada

- Standard package includes three 20' control switches or EZconnex® float system

- Complete with step-by-step installation instructions

- Five-year limited warranty

OPTIONAL FEATURE

- **34" (86.36cm) 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 size14" x 12" x 6" (35.56 x 30.48 x 15.24 cm)

SEE BACKSIDE FOR COMPLETE LISTING OF AVAILABLE OPTIONS.
SEE PRICE BOOK FOR LIST PRICE.

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MODEL 112

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)
                                  120/208/240V (select STARTING DEVICE option 1 above)

FLOAT SWITCH APPLICATION
H or L = pump down or pump up (select 17 option)
E = EZconnex® float switch system (select 33 or 34 option)
    WITH alarm package
    WITHOUT alarm package
X = no floats
    WITH alarm package
    WITHOUT alarm package

OPTIONS *Listed below*

★ ENCLOSURE UPSIZE - If you selected 3 or more of the ★ options, or one ★★ option

CODE	DESCRIPTION
1A	Red beacon only / no audio *(must select 1E if floats included)*
1C	Horn only / no visual *(must select 1E if floats included)*
1E	Alarm float
3A	Alarm flasher
★ 3B	Manual alarm reset
★★4A	Redundant off *(select option 4D if floats included)*
★★4B	Red redundant off indicator & alarm *(must select 4A also)*
4D	Redundant off float *(select 4A option) (select 17 option)*
★ 5A	Thermal cutout/heat sensor auto reset (for pumps w/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
10E	Lockable latch - NEMA 1
★ 10F	Lightning arrestor *(select pump circuit breaker)*
★ 10K	Anti-condensation heater
★★10P	Panel Mounting Post (Factory Installed.Includes Simplex Install. Kit) (Encl. upsized to 10x8x6.Max 14x12x6)
11C	NEMA 1 alarm panel *(must select option 6A)*
11D	NEMA 4X 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

CODE	DESCRIPTION
★★15A	Control / alarm circuit breaker
16A	10' cord in lieu of 20' *(per float)*
16B	15' cord in lieu of 20' *(per float)*
16C	30' cord in lieu of 20' *(per float)*
16D	40' cord in lieu of 20' *(per float)*
17A	SJE SignalMaster® / mounting strap ● *(per float)*
17B	SJE SignalMaster® / externally weighted ● *(per float)*
17C	Sensor Float® / internally weighted ▲ *(per float)*
17D	Sensor Float® / externally weighted ▲ *(per float)*
17E	Sensor Float® Mini / pipe clamp ▲ *(per float)*
17F	Sensor Float® Mini / externally weighted ▲ *(per float)*
17J	Sensor Float® / pipe clamp ▲ *(per float)*
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 ●
21C	Super Single® in lieu of on/off switches ▲
21D	Double Float® in lieu of on/off switches ▲
33D	EZconnex® 3-Port, 25', w/10' floats (3) /pipe clamp ✱
33E	EZconnex® 3-Port, 50', w/10' floats (3) /pipe clamp ✱
33G	EZconnex® 3-Port, 25', w/20' floats (3) /pipe clamp ✱
33H	EZconnex® 3-Port, 50', w/20' floats (3) /pipe clamp ✱
34D	EZconnex® 4-Port, 25', w/10' floats (3) /pipe clamp, sealing plug ✱
34E	EZconnex® 4-Port, 50', w/10' floats (3) /pipe clamp, sealing plug ✱
34G	EZconnex® 4-Port, 25', w/20' floats (3) /pipe clamp, sealing plug ✱
34H	EZconnex® 4-Port, 50', w/20' floats (3) /pipe clamp, sealing plug ✱

● Mechanically-activated   ▲ Mercury-activated   ✱ EZconnex® mechanically-activated, narrow angle float switches with quick release connections.