

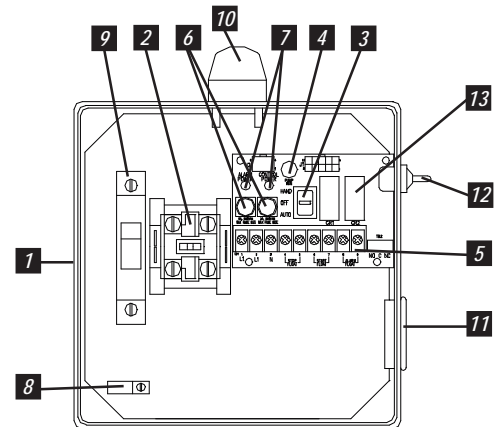
MODEL 112 Control Panel

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' SJE SignalMaster® control switches
- Complete with step-by-step installation instructions
- Five-year limited warranty



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

112

1

W

1

2

4

H

6A17A

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

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)

☐

 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 ,
add a one-time enclosure upsize fee would apply.

CODE	DESCRIPTION	CODE	DESCRIPTION
<input type="checkbox"/> 1A	Red beacon only / no audio (must select 1E if floats included)	<input type="checkbox"/> 11C	NEMA 1 alarm panel (must select option 6A)
<input type="checkbox"/> 1C	Horn only / no visual (must select 1E if floats included)	<input type="checkbox"/> 11D	NEMA 4X alarm panel (must select option 6A)
<input type="checkbox"/> 1E	Alarm float	<input checked="" type="checkbox"/> ★★ 14B	Main disconnect (rotary style, mounted through door, non-fused)
<input type="checkbox"/> 3A	Alarm flasher	<input checked="" type="checkbox"/> ★★ <input type="checkbox"/> 0-20 FLA	
<input checked="" type="checkbox"/> ★ 3B	Manual alarm reset	<input checked="" type="checkbox"/> ★★ <input type="checkbox"/> 20-30 FLA	
<input checked="" type="checkbox"/> ★ 4A	Redundant off (select option 4D if floats included)	<input type="checkbox"/> 15A	Control / alarm circuit breaker
<input type="checkbox"/> ★ 4B	Red redundant off indicator & alarm (must select 4A also)	<input type="checkbox"/> 16A	10' cord in lieu of 20' (per float)
<input type="checkbox"/> 4D	Redundant off float (select 4A option) (select 17 option)	<input type="checkbox"/> 16B	15' cord in lieu of 20' (per float)
<input type="checkbox"/> ★ 5A	Thermal cutout/heat sensor auto reset (for pumps w/thermal switch leads)	<input type="checkbox"/> 16C	30' cord in lieu of 20' (per float)
<input checked="" type="checkbox"/> ★★ 5E	Seal failure circuit & red indicator (2 wire)	<input type="checkbox"/> 16D	40' cord in lieu of 20' (per float)
<input checked="" type="checkbox"/> 6A	Auxiliary alarm contact, form C	<input checked="" type="checkbox"/> 17A	SJE SignalMaster® / mounting strap ● (per float)
<input checked="" type="checkbox"/> ★ 8A	Elapsed time meter	<input type="checkbox"/> 17B	SJE SignalMaster® / externally weighted ● (per float)
<input checked="" type="checkbox"/> ★ 8C	Event (cycle) counter	<input type="checkbox"/> 17C	Sensor Float® / internally weighted ▲ (per float)
<input type="checkbox"/> ★★ 9_A	Pump overload specify amperage after number 9 followed by letter "A". Example: 912A = 12 amp pump.	<input type="checkbox"/> 17D	Sensor Float® / externally weighted ▲ (per float)
<input checked="" type="checkbox"/> ★★ <input type="checkbox"/> 0-25 FLA		<input type="checkbox"/> 17E	Sensor Float® Mini / pipe clamp ▲ (per float)
<input checked="" type="checkbox"/> ★★ <input type="checkbox"/> 25-30 FLA		<input type="checkbox"/> 17F	Sensor Float® Mini / externally weighted ▲ (per float)
<input type="checkbox"/> 10E	Lockable latch - NEMA 4X	<input type="checkbox"/> 17J	Sensor Float® / pipe clamp ▲ (per float)
<input type="checkbox"/> 10E	Lockable latch - NEMA 1	<input type="checkbox"/> 19T	TOA (Test/Off/Automatic) switch and pump run light through door mounted
<input checked="" type="checkbox"/> ★ 10F	Lightning arrestor (select pump circuit breaker)	<input type="checkbox"/> 19U	HOA (Hand/Off/Automatic) switch and pump run light through door mounted
<input type="checkbox"/> ★ 10K	Anti-condensation heater	<input type="checkbox"/> 19X	Door mounted pump run indicator
		<input type="checkbox"/> 21A	SJE PumpMaster® in lieu of on/off switches ●
		<input type="checkbox"/> 21B	SJE PumpMaster® Plus in lieu of on/off switches ●
		<input type="checkbox"/> 21C	Super Single® in lieu of on/off switches ▲
		<input type="checkbox"/> 21D	Double Float® in lieu of on/off switches ▲
			● Mechanically-activated ▲ Mercury-activated

If additional features are required, call the factory for a quote on an Engineered Custom control panel.

SAMPLE

MODEL

112

1

W

9

1

4

H

3A 8A 17A

Alarm Package

Enclosure Rating

Starting Device

Pump Full Load Amps

Pump Disconnect

Float Switch Application

Options: Flasher, Elapsed Time Meter,

SJE SignalMaster® / pipe clamp

SJE SIGNALMASTER® Control Switch

Mechanically-activated, narrow-angle float switch designed to activate pump control panels and alarms.

This narrow-angle sensing device is used to accurately monitor liquid levels in:

- potable water
- water
- sewage applications

The SJE SignalMaster® control switch is not sensitive to rotation.

➔ Normally Open Model (high level)

The control switch turns on (closes) when the float tips slightly **above** horizontal signaling a high level, and turns off (opens) when the float drops slightly below horizontal.

Normally Closed Model (low level)

~~The control switch turns on (closes) when the float tips slightly **below** horizontal signaling a low level, and turns off (opens) when the float tips slightly above horizontal.~~



FEATURES

- Passed NSF Standard 61 protocol by an approved Water Quality Association laboratory.
- Mechanically-activated, snap action contacts.
- High impact, corrosion resistant, polypropylene float housing.
- Not sensitive to rotation.
- Control differential of 1.5 inches (4 cm) above or below horizontal.
- Yellow colored cap for easy identification of normally open control switch.
- White colored cap for easy identification of normally closed control switch.
- UL Listed for use in water and sewage.
- CSA Certified.
- Five-year limited warranty.



OPTIONS

This switch is available:

- CE certified unit available upon request.
- for normally open (high level) applications ~~or normally closed (low level) applications.~~
- in standard cable lengths of ~~10, 15, 20, or 30~~ feet and 3, 5, 6, or 10 meters (longer lengths available)
- with two mounting options that allow for flexibility in installation:

➔ **Mounting Clamp:** for applications where the switch can be attached to a discharge pipe or similar mounting device.

~~**Externally Weighted:** for applications where the switch can be suspended from above.~~

SPECIFICATIONS

CABLE: flexible 18 gauge, 2 conductor (UL, CSA) SJOW, water-resistant (CPE)

FLOAT: 2.74 inch diameter x 4.83 inch long (7.0 x 12.3 cm) high impact, corrosion resistant, polypropylene housing for use in sewage and water up to 140°F (60°C)

MAXIMUM WATER DEPTH: 30 feet (9 meters), 13 psi (90 kPa)

ELECTRICAL: 5 amp, 125/250 VAC, 50/60 Hz

NOTE: This switch is not recommended for controlling:

- electric loads less than 100 milliamps, 12 VAC
- non-arcing electric loads

**SJE
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