

# MODEL 113 Control Panel

Single phase, simplex capacitor start/run pump control.

Model 113 control panels provide a reliable means of controlling one 120, 208, or 240 VAC single phase pump requiring external starting components in water and sewage installations. Two control switches activate an IEC motor contactor to turn the pump on and off. If an alarm condition occurs, an additional alarm switch activates the audio/visual alarm system. Common applications include pump chambers and lift stations.

## PANEL COMPONENTS

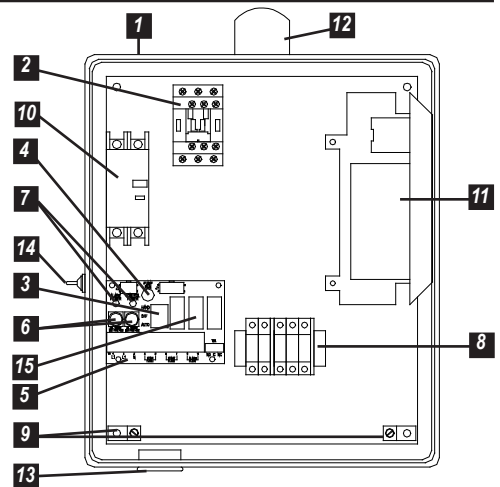
- Enclosure** measures 14 x 12 x 6 inches (35.56 X 30.48 X 15.24 cm). NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use).  
\* Options selected may increase enclosure size and change component layout.
- IEC Motor Contactor** controls pump by switching electrical lines.
- HOA Switch** for manual pump control (mounted on circuit board).
- Green Pump Run Indicator Light** (mounted on circuit board).
- Float Switch Terminal Block** (mounted on circuit board).
- Alarm and Control Fuses** (mounted on circuit board).
- Alarm and Control Power Indicators** (mounted on circuit board).
- Pump Input Power and Pump Connection Terminal Block**
- Ground Lugs**
- Circuit Breaker** (optional) provides pump disconnect and branch circuit protection.
- Capacitor Start Module** - start/run capacitor kit must be ordered separately.

## STANDARD ALARM PACKAGE

- Red Alarm Beacon** provides 360° visual check of alarm condition.
- Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating).
- 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 is cleared.
- Horn Silence Relay** (mounted on circuit board).

**NOTE:** other options available.

**Model 113 control panels cannot be returned. Please refer to the Product Return section.**



*Model Shown 1131W124X*

## 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. This express warranty does not apply to the motor start kit components. SJE-Rhombus will warranty motor start kit components supplied by SJE-Rhombus for one year. SJE-Rhombus makes no warranties of any type with respect to motor start kits supplied by a customer.



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

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**MODEL 113****ALARM PACKAGE**

- 0 = select options or no alarm package  
 1 = alarm package (includes test/normal/silence switch, fuse, red light, horn & float)

**ENCLOSURE RATING**

- W = Weatherproof, NEMA 4X (engineered thermoplastic)

**STARTING DEVICE**

- 1 = IEC motor contactor 120/208/240V

**PUMP FULL LOAD AMPS**

- 0 = 0-7 FLA  
 1 = 7-15 FLA  
 2 = 15-20 FLA  
 3 = 20-30 FLA  
 4 = 30-40 FLA

**PUMP DISCONNECTS**

- 0 = no pump disconnect  
 4 = circuit breaker

**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*

Start/run capacitor kits must be ordered separately (see option 12 below or call factory)

- | CODE                         | DESCRIPTION  |
|------------------------------|--|
| <input type="checkbox"/> 1A  | Red beacon only / no audio<br>( <i>must select 1E if floats included</i> )   |
| <input type="checkbox"/> 1C  | Horn only / no visual<br>( <i>must select 1E if floats included</i> )  |
| <input type="checkbox"/> 1E  | Alarm float  |
| <input type="checkbox"/> 3A  | Alarm flasher  |
| <input type="checkbox"/> 3B  | Manual alarm reset   |
| <input type="checkbox"/> 4A  | Redundant off<br>( <i>select option 4D if floats included</i> )  |
| <input type="checkbox"/> 4B  | Red redundant off indicator & alarm<br>( <i>must select 4A also</i> )  |
| <input type="checkbox"/> 4D  | Redundant off float<br>( <i>must select 4A option</i> ) ( <i>select 17 option</i> )  |
| <input type="checkbox"/> 5A  | Thermal cutout/heat sensor auto reset<br>(for pumps with thermal switch leads)   |
| <input type="checkbox"/> 5E  | Seal fail circuit and indicator (2 wire)   |
| <input type="checkbox"/> 6A  | Auxiliary alarm contact, form C  |
| <input type="checkbox"/> 8A  | Elapsed time meter   |
| <input type="checkbox"/> 8C  | Event (cycle) counter  |
| <input type="checkbox"/> 9_A | Pump overload<br>specify amperage after number 9 followed<br>by letter "A". Example: 912A = 12 amp pump.   |
| <input type="checkbox"/>     | 0-30 FLA   |
| <input type="checkbox"/>     | 30-40 FLA  |
| <input type="checkbox"/> 10E | Lockable latch   |
| <input type="checkbox"/> 10F | Lightning arrestor ( <i>select pump circuit breaker</i> )  |
| <input type="checkbox"/> 10K | Anti-condensation heater   |
| <input type="checkbox"/> 11C | NEMA 1 alarm panel ( <i>must select option 6A</i> )  |
| <input type="checkbox"/> 11D | NEMA 4X alarm panel ( <i>must select option 6A</i> )   |
| <input type="checkbox"/> 12B | Customer supplied motor start components, mounted in<br>enclosure by SJE-Rhombus   |
| <input type="checkbox"/> 12C | Motor start component, mounted and supplied by<br>SJE-Rhombus  |
| <input type="checkbox"/> 14B | Main disconnect ( <i>rotary style, mounted through door, non-fused,<br/>padlockable in the OFF-position, door interlock in the ON-position</i> )<br>( <i>must select circuit breaker</i> ) |
| <input type="checkbox"/>     | 0-20 FLA   |
| <input type="checkbox"/>     | 20-40 FLA  |

- | CODE                         | DESCRIPTION  |
|------------------------------|--|
| <input type="checkbox"/> 16A | 10' cord in lieu of 20' ( <i>per float</i> )                               |
| <input type="checkbox"/> 16B | 15' cord in lieu of 20' ( <i>per float</i> )                               |
| <input type="checkbox"/> 16C | 30' cord in lieu of 20' ( <i>per float</i> )                               |
| <input type="checkbox"/> 16D | 40' cord in lieu of 20' ( <i>per float</i> )                               |
| <input type="checkbox"/> 17A | SJE SignalMaster® / mounting strap ● ( <i>per float</i> )                  |
| <input type="checkbox"/> 17B | SJE SignalMaster® / externally weighted ● ( <i>per float</i> )             |
| <input type="checkbox"/> 17C | Sensor Float® / internally weighted ▲ ( <i>per float</i> )                 |
| <input type="checkbox"/> 17D | Sensor Float® / externally weighted ▲ ( <i>per float</i> )                 |
| <input type="checkbox"/> 17E | Sensor Float® Mini / pipe clamp ▲ ( <i>per float</i> )                     |
| <input type="checkbox"/> 17F | Sensor Float® Mini / externally weighted ▲ ( <i>per float</i> )            |
| <input type="checkbox"/> 17J | Sensor Float® / internally pipe clamp ▲ ( <i>per float</i> )               |
| <input type="checkbox"/> 19T | TOA (Test/Off/Automatic) switch and pump run light<br>through door mounted |
| <input type="checkbox"/> 19U | HOA (Hand/Off/Automatic) switch and pump run light<br>through door mounted |
| <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 ▲                                 |
| <input type="checkbox"/> 33D | EZconnex® 3-Port, 25', w/10' floats (3) /pipe clamp *                      |
| <input type="checkbox"/> 33E | EZconnex® 3-Port, 50', w/10' floats (3) /pipe clamp *                      |
| <input type="checkbox"/> 33G | EZconnex® 3-Port, 25', w/20' floats (3) /pipe clamp *                      |
| <input type="checkbox"/> 33H | EZconnex® 3-Port, 50', w/20' floats (3) /pipe clamp *                      |
| <input type="checkbox"/> 34D | EZconnex® 4-Port, 25', w/10' floats (3) /pipe clamp,<br>sealing plug *     |
| <input type="checkbox"/> 34E | EZconnex® 4-Port, 50', w/10' floats (3) /pipe clamp,<br>sealing plug *     |
| <input type="checkbox"/> 34G | EZconnex® 4-Port, 25', w/20' floats (3) /pipe clamp,<br>sealing plug *     |
| <input type="checkbox"/> 34H | EZconnex® 4-Port, 50', w/20' floats (3) /pipe clamp,<br>sealing plug *     |

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