MODEL 114 Control Panel

Single phase, simplex pump control with intrinsically safe circuits.

The Model 114 control panel is designed for applications requiring intrinsically safe float circuits or other circuit extensions. This panel will control one 120, 208, or 240 VAC single phase pump. 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. Common applications include pump chambers, lift stations, or other installations classified as hazardous locations requiring intrinsically safe circuits.

PANEL COMPONENTS

1. **Enclosure** measures 16 x 14 x 6 inches (40.64 x 35.56 x 15.24 cm) NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use).

2. **Intrinsically Safe Module** limits the amount of energy to switches preventing ignition of flammable gases.

3. **Intrinsically Safe Partition** isolates the intrinsically safe wiring.

4. **IEC Motor Contactor** controls pump by switching electrical lines.

5. **HOA Switch** for manual pump control (mounted on circuit board).

6. **Green Pump Run Indicator Light** (mounted on circuit board).

7. **Alarm Fuse** (mounted on circuit board).

8. **Control Fuse** (mounted on circuit board).

9. **Control Power Indicator Light** (mounted on circuit board).

10. **Alarm Power Indicator Light** (mounted on circuit board).

11. **Input Power Terminal Block**

12. **Ground Lugs**

13. **Circuit Breaker** (optional) provides pump disconnect and branch circuit protection.

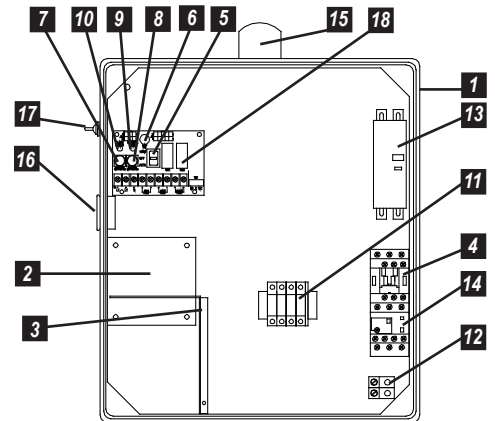14. **Overload Relay** (optional) provides thermal overload protection for pump.

NOTE: Schematic/Wiring Diagram is located inside the panel on enclosure cover.

STANDARD ALARM PACKAGE

15. **Red Alarm Beacon** provides 360° visual check of alarm condition.

16. **Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating).

17. **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.

18. **Horn Silence Relay** (mounted on circuit board).

NOTE: other options available.

Model 114 control panels cannot be returned. Please refer to the Product Return section.

Model Shown 1141W114X

FEATURES

- Industrial control panel is UL Listed relating to hazardous locations with intrinsically safe circuit extenstions

- 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.

c(UL)us LISTED

SJE RHOMBUS

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

MODEL 114

```
┌─────┐   ┌─────┐   ┌─────┐   ┌─────┐   ┌─────┐   ┌─────┐   ┌─────┐   ┌─────┐
│ 114 │   │     │   │  W  │   │     │   │     │   │     │   │     │   │     │
└─────┘   └─────┘   └─────┘   └─────┘   └─────┘   └─────┘   └─────┘   └─────┘
```

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 = 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
4 = 30-40 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)
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*

CODE	DESCRIPTION		CODE	DESCRIPTION
1A	Red beacon only / no audio *(must select 1E if floats included)*		11C	NEMA 1 alarm panel *(must select option 6A)*
1C	Horn only / no visual *(must select 1E if floats included)*		11D	NEMA 4X alarm panel *(must select option 6A)*
1E	Alarm float		12B	Motor start components *supplied by customer, mounted by SJE-Rhombus (18 x 16 enclosure upgrade)*
3A	Alarm flasher		12C	Motor start components *mounted and supplied by SJE-Rhombus (18 x 16 enclosure upgrade)*
3B	Manual alarm reset		14B	Disconnect *(rotary style, mounted through door, non-fused, padlockable in the OFF-position, door interlock in the ON-position) (must select circuit breaker)*
3C	Red high / low indicator light & alarm activation *(4A not needed)*			0-20 FLA
3D	Float for low indicator *(must select option 3C)*			20-40 FLA
4A	Redundant off *(select option 4D if floats included, 3C not needed)*		16A	10' cord in lieu of 20' *(per float)*
4B	Red redundant off indicator & alarm *(must select 4A also)*		16B	15' cord in lieu of 20' *(per float)*
4D	Redundant off float *(must select 4A & 17 option)*		16C	30' cord in lieu of 20' *(per float)*
5A	Thermal cutout/heat sensor auto reset *(for pumps with thermal switch leads)*		16D	40' cord in lieu of 20' *(per float)*
5E	Seal failure circuit & red indicator (2 wire)		17C	Sensor Float® / internally weighted ▲ *(per float)*
5M	Seal fail alarm activation *(must selection option 5E)*		17D	Sensor Float® / externally weighted ▲ *(per float)*
6A	Auxiliary alarm contact, form C		17G	MilliAmpMaster™/ pipe clamp ● *(per float)*
6G	Auxiliary contact, dry, seal fail, normally open *(must select option 5E)*		17H	MilliAmpMaster™/ externally weighted ● *(per float)*
8A	Elapsed time meter		17J	Sensor Float® / pipe clamp ▲ *(per float)*
8C	Event (cycle) counter		19T	TOA (Test/Off/Automatic) switch and pump run light through door mounted
9_A	Overload protection *specify amperage after number 9 followed by letter "A" (Ex. 912A = 12 amp pump)*		19U	HOA (Hand/Off/Automatic) switch and pump run light through door mounted
	0-25 FLA		19X	Door mounted pump run indicator
	25-40 FLA		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 ✱
10A	Clear inner swing-out door w/dead front *(lights and switches mounted on inner door)*		33H	EZconnex® 3-Port, 50', w/20' floats (3) /pipe clamp ✱
10E	Lockable latch		34D	EZconnex® 4-Port, 25', w/10' floats (3) /pipe clamp, sealing plug ✱
10F	Lightning arrestor *(must select pump circuit breaker)*		34E	EZconnex® 4-Port, 50', w/10' floats (3) /pipe clamp, sealing plug ✱
10K	Anti-condensation heater		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.