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 intriniscally 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.

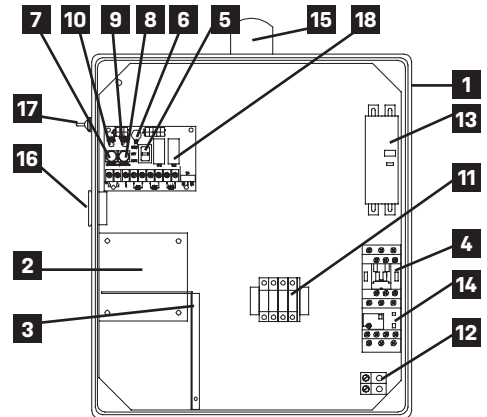14. **Overload Relay** (optional) provides thermal overload protection for pump.

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 extensions

- 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.

SEE REVERSE SIDE FOR ORDERING INFORMATION.
SEE PRICE BOOK FOR LIST PRICE.

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MODEL 114

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
☐	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, 3C not needed)*
☐	4B Red redundant off indicator & alarm *(must select 4A also)*
☐	4D Redundant off float *(must select 4A & 17 option)*
☐	5A Thermal cutout/heat sensor auto reset (for pumps with thermal switch leads)
☐	5E Seal failure circuit & red indicator (2 wire)
☐	5M Seal fail alarm activation *(must selection option 5E)*
☐	6A Auxiliary alarm contact, Form C
☐	6G Auxiliary contact, dry, seal fail, normally open *(must select option 5E)*
☐	8A Elapsed time meter
☐	8C Event (cycle) counter
☐	9_A Overload protection *specify amperage after number 9 followed by letter "A" (Ex. 912A = 12 amp pump)*
☐	0-25 FLA
☐	25-40 FLA
☐	10A Clear inner swing-out door w/dead front *(lights and switches mounted on inner door)*
☐	10E Lockable latch
☐	10F Lightning arrestor *(must select pump circuit breaker)*
☐	10K Anti-condensation heater

CODE	DESCRIPTION
☐	11C NEMA 1 alarm panel *(must select option 6A)*
☐	11D NEMA 4X alarm panel *(must select option 6A)*
☐	12B Motor start components *supplied by customer, mounted by SJE Rhombus (18 x 16 enclosure upgrade)*
☐	12C Motor start components *mounted and supplied by SJE Rhombus (18 x 16 enclosure upgrade)*
☐	14B 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
☐	20-40 FLA
☐	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)*
☐	17C Sensor Float® / internally weighted ▲ *(per float)*
☐	17D Sensor Float® / externally weighted ▲ *(per float)*
☐	17G MilliAmpMaster™/ pipe clamp ● *(per float)*
☐	17H MilliAmpMaster™/ 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
☐	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.

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