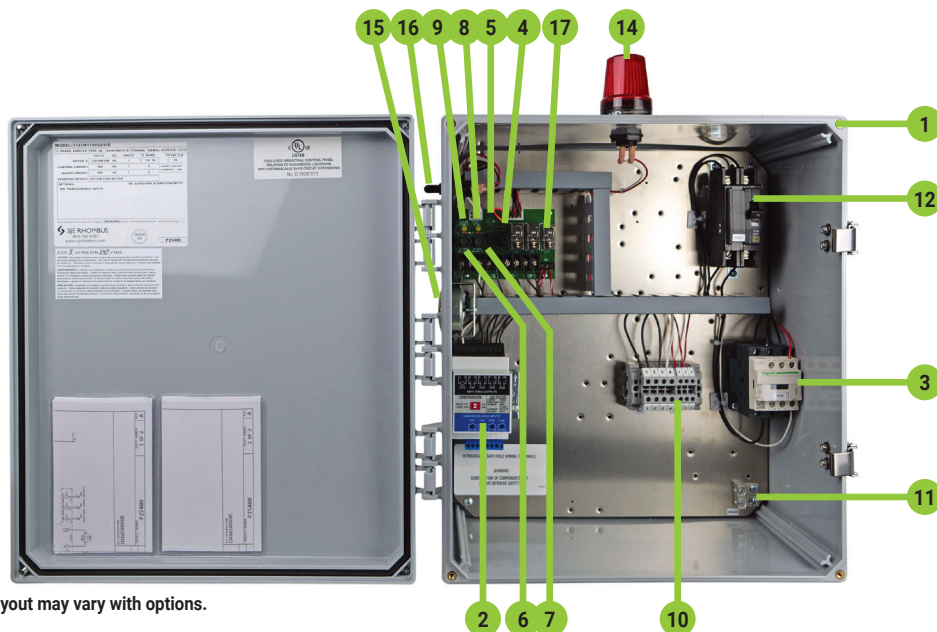


# MODEL 114 CONTROL PANEL

Single Phase, Simplex Pump Control with Intrinsically Safe Circuits



Panel layout may vary with options.

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. This panel is available with optional EZconnex® float connection system.

**Note:** 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.

## 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. IEC motor contactor controls pump by switching electrical lines
4. HOA switch for manual pump control (mounted on circuit board)
5. Green Pump Run indicator light (mounted on circuit board)
6. Alarm fuse (mounted on circuit board)
7. Control fuse (mounted on circuit board)
8. Control power indicator light (mounted on circuit board)
9. Alarm power indicator light (mounted on circuit board)
10. Input power terminal block
11. Ground lugs
12. Circuit breaker (optional) provides pump disconnect and branch circuit protection
13. Overload relay (optional) provides thermal overload protection for pump
14. Red LED beacon provides 360° visual check of alarm condition
15. Alarm horn provides audio warning of alarm condition (83 to 85 decibel rating)
16. 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.
17. Horn silence relay (mounted on circuit board)

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

**Note: Other options available. Options selected may increase enclosure size and change component layout.**

**Note:** Schematic/Wiring Diagram and Pump Specification Label are located inside the panel.



MODEL 114 - Single phase, simplex pump control with intrinsically safe circuits.

<b>114</b> CONTROL PANEL	<b>ALARM PACKAGE</b>	<b>W</b> ENCLOSURE RATING	<b>STARTING DEVICE</b>	<b>PUMP FULL LOAD AMPS</b>	<b>PUMP DISCONNECTS</b>	<b>FLOAT SWITCH APPLICATION</b>	OPTIONS (LISTED BELOW)
-----------------------------	----------------------	------------------------------	------------------------	----------------------------	-------------------------	---------------------------------	------------------------

<b>CONTROL PANEL</b>	✓	114	Single Phase Simplex Intrinsically Safe		
<b>ALARM PACKAGE</b>		0	Select Options or No Alarm Package		
		1	Alarm Package (includes test/normal/silence switch, fuse, red light, & horn)		
<b>ENCLOSURE RATING</b>	✓	W	Weatherproof, NEMA 4X (engineered thermoplastic)		
<b>STARTING DEVICE</b>		1	Magnetic Motor Contactor 120/208/240V		
		9	Magnetic Motor Contactor 120V only		
<b>PUMP FULL LOAD AMPS</b>		0	0 - 7 FLA		
		1	7 - 15 FLA		
		2	15 - 20 FLA		
		3	20 - 30 FLA		
		4	30 - 40 FLA		
<b>PUMP DISCONNECTS</b>		0	No Pump Disconnect		
		4	Circuit Breaker 120V (select STARTING DEVICE option 9 above)		
		4	Circuit Breaker 120/208/240V (select STARTING DEVICE option 1 above)		
<b>FLOAT SWITCH APPLICATION</b>		H	Pump Down (select Option 17 below)		
		L	Pump Up (select Option 17 below)		
		E	EZconnex® Float Switch System (select Option 33 or 34 below)	with Alarm Package	
				without Alarm Package	
		X	No Floats	with Alarm Package	
	without Alarm Package				

PRICING WORKSHEET

<b>Model 113 Base Price</b>	_____
Alarm Package	_____
Enclosure Rating	_____
Starting Device	_____
Pump Full Load Amps	_____
Pump Disconnects	_____
Float Switch Application	_____
Total Options	_____
<b>TOTAL LIST PRICE</b>	_____

OPTIONS	DESCRIPTION
1A	Red Beacon Only / No Audio (must select Option 1E if floats included)
1C	Horn Only / No Visual (must select Option 1E if floats included)
1E	Alarm Float
3A	Alarm Flasher
3B	Manual Alarm Reset
4A	Redundant Off (must also select Option 4D if floats are required)
4B	Red Redundant Off Indicator & Alarm (must also select Option 4A)
4D	Redundant Off Float (must also select Option 4A and Option 17)
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 select 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	Pump Overload - Specify Amperage After Number 9 Followed by Letter "A" Example: 912A = 12 Amp Pump
	0-25 FLA 25-40 FLA
10A	Clear Inner Swing-Out Door with Dead Front (lights and switches mounted on inner door) <b>PANELS ORDERED WITH THIS OPTION CANNOT BE RETURNED</b>
10E	Lockable Latch - NEMA 4X
10F	Lightning Arrestor (select pump circuit breaker)
10K	Anti-condensation Heater
11C	Additional NEMA 1 Remote Alarm Panel (must select Option 6A)
11D	Additional NEMA 4X Remote Alarm Panel (must select Option 6A)

OPTIONS	DESCRIPTION
12B	Customer Supplied Motor Start Components, Mounted in Enclosure by SJE Rhombus
12C	Motor Start Component, Mounted and Supplied by SJE Rhombus
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 20-40 FLA
16A	10' Cord in Lieu of 20' Cord (per float)
16B	15' Cord in Lieu of 20' Cord (per float)
16C	30' Cord in Lieu of 20' Cord (per float)
16D	40' Cord in Lieu of 20' Cord (per float)
17C	Sensor Float® / Internally Weighted (per Float) - Mercury
17D	Sensor Float® / Externally Weighted (per Float) - Mercury
17G	SJE MilliAmpMaster™ / Pipe Clamp (per Float) - Mechanical
17H	SJE MilliAmpMaster™ / Externally Weighted (per Float) - Mechanical
17J	Sensor Float® / Pipe Clamp (per Float) - Mercury
19T	TOA (Test/Off/Automatic) Switches and Pump Run Lights Through Door Mounted
19U	HOA (Hand/Off/Automatic) Switches and Pump Run Lights Through Door Mounted
19X	Door Mounted Pump Run Indicator
33D	EZconnex® 3-Port, 25', with 10' Floats (3) / Pipe Clamp
33E	EZconnex® 3-Port, 50', with 10' Floats (3) / Pipe Clamp
33G	EZconnex® 3-Port, 25', with 20' Floats (3) / Pipe Clamp
33H	EZconnex® 3-Port, 50', with 20' Floats (3) / Pipe Clamp
34D	EZconnex® 4-Port, 25', with 10' Floats (3) / Pipe Clamp, Sealing Plug
34E	EZconnex® 4-Port, 50', with 10' Floats (3) / Pipe Clamp, Sealing Plug
34G	EZconnex® 4-Port, 25', with 20' Floats (3) / Pipe Clamp, Sealing Plug
34H	EZconnex® 4-Port, 50', with 20' Floats (3) / Pipe Clamp, Sealing Plug

■ EZconnex® mechanically-activated, narrow angle float switches with quick release connections