

MODEL 123 Control Panel

Single phase, duplex capacitor start/run pump control with override.

The Model 123 control panel is designed to control two 120, 208, or 240 VAC single phase pumps requiring external starting components in water and sewage installations. The controller is provided with a pump selector switch that can be set to alternate the pumps to equalize wear or to call either pump to activate first with the other pump to activate in lag condition. If an alarm occurs, the alarm activates the audible-visual system. The alarm conditions include: high water, float out-of-sequence, pump fail-to-run, seal failure (optional). Common applications include pump chambers and lift stations.

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). **Note:** Options selected may increase enclosure size and change component layout.
2. **Circuit Breakers** (optional) provide pump disconnect and branch circuit protection.
3. **IEC Motor Contactors** control pumps by switching electrical lines.
4. **Capacitor Start Modules** - start/run capacitor kits must be ordered separately.
5. **Duplex Controller** provides pump control, alternation and alarm
 - a. HOA switches for manual control Hand/Off/Automatic
 - b. Control Power ON/OFF switch
 - c. Power ON green LED indicator
 - d. Float status red LED indicators
 - e. Float push-to-test buttons
 - f. Pump selector switch: Alt, 1-lead 2-lag, 2-lead 1 lag
 - g. Auxiliary alarm contacts Form-C
 - h. Terminal block: incoming power
 - i. Terminal block: float switches
 - j. Option: adjustable seal failure circuits and red LED indicators
6. **Incoming Pump Power Terminal Block / Pump Terminal Block**
7. **Ground Lugs**

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

STANDARD ALARM PACKAGE

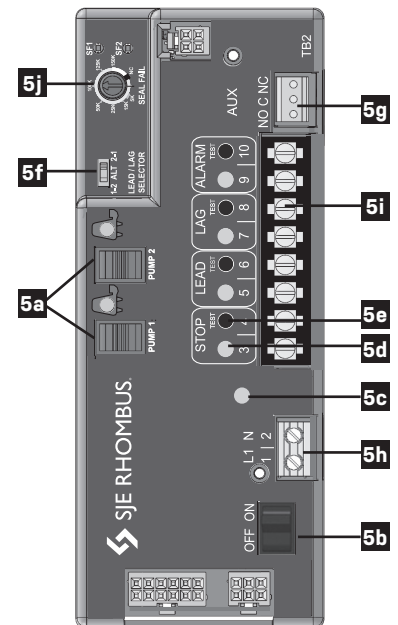
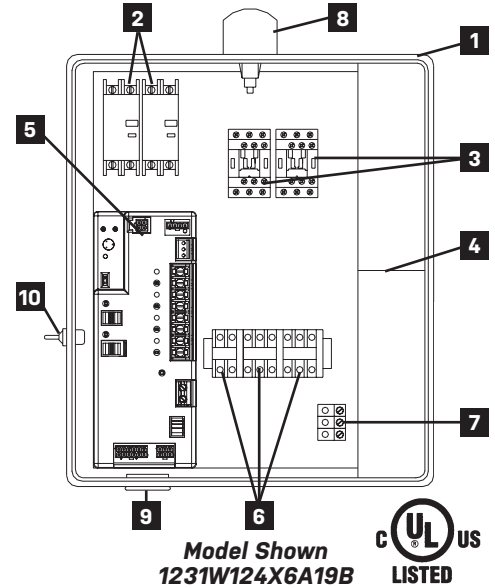
8. **Red Alarm Beacon** provides 360° visual check of alarm condition.
9. **Alarm Horn** provides audible alarm warning (83 to 85 decibel rating).
10. **Exterior Alarm Test/Normal/Silence Switch** allows horn and light to be tested and horn to be silenced in an alarm condition. Alarm automatically resets once alarm condition is cleared.

NOTE: other options available.

Model 123 control panels cannot be returned. Please refer to the Product Return section.

FEATURES

- Touch safe circuit board housing and low voltage 12 VDC float circuits
- Constant alarm (field programmable to flash)
- Alarm automatic reset (field programmable to manual alarm reset)
- Float out-of-sequence detection with automatic float reassignment
- Pump fail-to-run detection (field programmable to deactivate)
- Controller protected by four auto resettable fuses, no fuse replacement
- Three second lag pump delay time, prevents simultaneous pump start-up
- 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.



SJE RHOMBUS

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B.51

California Prop 65 requires the following: WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

SEE REVERSE SIDE FOR ORDERING INFORMATION.

123 W 1 6A19B

MODEL 123

\$1,425.00

ALARM PACKAGE

- 0 = select options or no alarm package - \$35.00
- 1 = alarm package (includes test/normal/silence switch, fuse, red light, horn)..... Base

ENCLOSURE RATING

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

STARTING DEVICE

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

PUMP FULL LOAD AMPS

- 0 = 0-7 FLA Base
- 1 = 7-15 FLA Base
- 2 = 15-20 FLA Base
- 3 = 20-30 FLA \$85.00
- 4 = 30-40 FLA \$127.00

PUMP DISCONNECTS

- 0 = no pump disconnect Base
- 4 = circuit breaker \$148.00

FLOAT SWITCH APPLICATION

- H or L = pump down or pump up (select 17 option)..... Base
- E = EZconnex® float switch system (select 34 or 35 option).....-\$81.00
- X = no floats.....-\$81.00

OPTIONS *Listed below*

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

Total Options

★ ENCLOSURE UPSIZE - If one or more of the ★ options are selected, add a one-time \$138.00 list enclosure upsize

Enclosure Upsize

TOTAL LIST PRICE

CODE	DESCRIPTION	LIST PRICE	CODE	DESCRIPTION	LIST PRICE
<input type="checkbox"/>	1A Red beacon only / no audio.....	\$21.00	<input type="checkbox"/>	16A 10' cord in lieu of 20' (per float)	- \$3.00
<input type="checkbox"/>	1C Horn only / no visual.....	\$21.00	<input type="checkbox"/>	16B 15' cord in lieu of 20' (per float)	- \$2.00
<input type="checkbox"/>	3A Alarm flasher (factory programmed).....	\$35.00	<input type="checkbox"/>	16C 30' cord in lieu of 20' (per float)	\$5.00
<input type="checkbox"/>	3B Manual alarm reset (factory programmed).....	\$35.00	<input type="checkbox"/>	16D 40' cord in lieu of 20' (per float)	\$15.00
<input checked="" type="checkbox"/> ★	4A Redundant off (select option 4D if floats included)	\$42.00	<input type="checkbox"/>	17C Sensor Float® / internally weighted ▲ (per float)	\$9.00
<input type="checkbox"/>	4B Red redundant off indicator & alarm..... (must select 4A also)	\$64.00	<input type="checkbox"/>	17D Sensor Float® / externally weighted ▲ (per float)	\$11.00
<input type="checkbox"/>	4D Redundant off float (must select 4A & 17 option)	\$27.00	<input type="checkbox"/>	17E Sensor Float® Mini / pipe clamp ▲ (per float)	\$2.00
<input checked="" type="checkbox"/> ★	5A Thermal cutout/heat sensor auto reset..... (for pumps with thermal switch leads)	\$84.00	<input type="checkbox"/>	17F Sensor Float® Mini / externally weighted ▲ (per float)	\$9.00
<input type="checkbox"/>	5E Seal fail circuit and indicator (2 wire).....	\$180.00	<input type="checkbox"/>	17G SJE MilliAmpMaster™ / pipe clamp ● (per float)	\$0.00
<input checked="" type="checkbox"/>	6A Auxiliary alarm contact, Form C.....	\$0.00	<input type="checkbox"/>	17H SJE MilliAmpMaster™ / externally weighted ● (per float)	\$7.00
<input checked="" type="checkbox"/> ★	8A Elapsed time meter.....	\$117.00	<input type="checkbox"/>	17J Sensor Float® / pipe clamp ▲ (per float)	\$4.00
<input checked="" type="checkbox"/> ★	8C Event (cycle) counter.....	\$95.00	<input checked="" type="checkbox"/>	19B Lead lag selector switch.....	\$0.00
<input type="checkbox"/>	9_A Pump overload specify amperage after number 9 followed by letter "A". Example: 912A = 12 amp pump.		<input type="checkbox"/>	19F Fourth float to separate alarm from lag.....	\$27.00
<input type="checkbox"/>	<input type="checkbox"/> 0-30 FLA.....	\$127.00	<input type="checkbox"/>	19T TOA (Test/Off/Automatic) switches and pump run lights through door mounted	\$170.00
<input type="checkbox"/>	<input type="checkbox"/> 30-40 FLA	\$212.00	<input type="checkbox"/>	19U HOA (Hand/Off/Automatic) switches and pump run lights through door mounted	\$159.00
<input type="checkbox"/>	10E Lockable latch	\$42.00	<input type="checkbox"/>	19X Door mounted pump run indicator	\$42.00
<input checked="" type="checkbox"/> ★	10F Lightning arrestor..... (must select pump circuit breakers)	\$244.00	<input type="checkbox"/>	34D EZconnex® 4-Port, 25', w/10' floats (3) /pipe clamp, sealing plug *.....	\$343.00
<input type="checkbox"/>	10K Anti-condensation heater	\$106.00	<input type="checkbox"/>	34E EZconnex® 4-Port, 50', w/10' floats (3) /pipe clamp, sealing plug *.....	\$388.00
<input type="checkbox"/>	11C NEMA 1 alarm panel.....	\$95.00	<input type="checkbox"/>	34G EZconnex® 4-Port, 25', w/20' floats (3) /pipe clamp, sealing plug *.....	\$362.00
<input type="checkbox"/>	11D NEMA 4X alarm panel	\$315.00	<input type="checkbox"/>	34H EZconnex® 4-Port, 50', w/20' floats (3) /pipe clamp, sealing plug *.....	\$407.00
<input type="checkbox"/>	12B Customer supplied motor start components, mounted in enclosure by SJE Rhombus.....	\$117.00	<input type="checkbox"/>	35D EZconnex® 4-Port, 25', w/10' floats (4) /pipe clamp *.....	\$379.00
<input type="checkbox"/>	12C Motor start component, mounted and supplied by SJE Rhombus	Call Factory	<input type="checkbox"/>	35E EZconnex® 4-Port, 50', w/10' floats (4) /pipe clamp *.....	\$424.00
<input checked="" type="checkbox"/> ★	14B Main disconnect (rotary style, mounted through door, non-fused, padlockable in the OFF-position, door interlock in the ON-position) (must select pump circuit breakers)		<input type="checkbox"/>	35G EZconnex® 4-Port, 25', w/20' floats (4) /pipe clamp *.....	\$405.00
<input type="checkbox"/>	<input checked="" type="checkbox"/> ★ 0-20 FLA	\$339.00	<input type="checkbox"/>	35H EZconnex® 4-Port, 50', w/20' floats (4) /pipe clamp *.....	\$450.00
<input type="checkbox"/>	<input checked="" type="checkbox"/> ★ 20-80 FLA.....	\$382.00			

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