

MODEL 123 Control Panel

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

Model 123 control panels are designed to alternately control two 120, 208, or 240 VAC single phase pumps requiring external starting components in water and sewage installations. The alternating action equalizes pump wear. In addition to the alternating pump control, these systems provide override control should either pump fail. If an alarm condition occurs, an alarm switch activates the audio/visual alarm system. Common applications include pump chambers and lift stations.

PANEL COMPONENTS

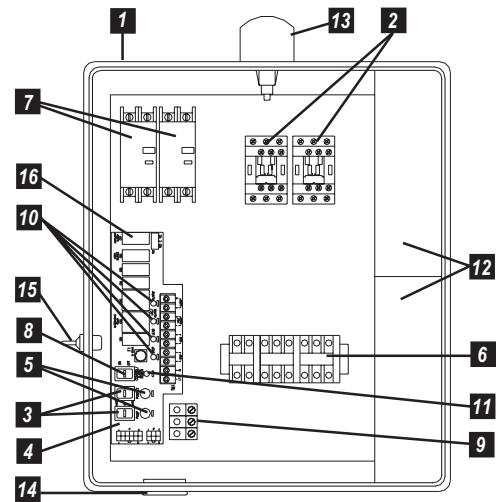
1. **Enclosure** measures 16 X 14 X 6 inches (40.64 X 35.56 X 15.24 cm); NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use). **Note:** Options selected may increase enclosure size and change component layout.
2. **IEC Motor Contactors** control pumps by switching electrical lines.
3. **HOA Switches** for manual pump control (mounted on circuit board).
4. **Alternating Circuit Board** provides pump control and alternation (U.S. Patent 5,909,352).
5. **Green pump Run Indicator Lights** (mounted on circuit board).
6. **Incoming Pump Power Terminal Block / Pump Terminal Block**
7. **Circuit Breakers** (optional) provide pump disconnect and branch circuit protection.
8. **Control ON/OFF Switch** (mounted on circuit board).
9. **Ground Lugs**
10. **Float Status Indicator Lights** (mounted on circuit board).
11. **Control / Alarm Power Indicator Light** (mounted on circuit board).
12. **Capacitor Start Modules** - start/run capacitor kits must be ordered separately.

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

STANDARD ALARM PACKAGE

13. **Red Alarm Beacon** provides 360° visual check of alarm condition.
14. **Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating).
15. **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.
16. **Horn Silence Relay** (mounted on circuit board).

NOTE: other options available.



Model Shown 1231W124X

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' Sensor Float® control switches
- Complete with step-by-step installation instructions
- Three-year limited warranty



PRICING/ORDERING INFORMATION

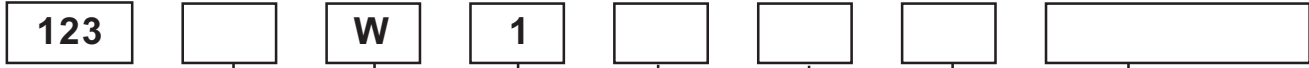
Model Number	AC Voltage	Full Load Amps	List Price	Shipping Weight
1231W110H12B	120/208/240 VAC	7-15 FLA	\$1073.00	24 lbs.
1231W114H12B	120/208/240 VAC	7-15 FLA	\$1213.00	24 lbs.
1231W134H12B	120/208/240 VAC	20-30 FLA	\$1293.00	24 lbs.
1231W144H12B	120/208/240 VAC	30-40 FLA	\$1333.00	24 lbs.

*Model 123 control panels cannot be returned. Please refer to the Product Return section on page 2.

SEE BACKSIDE FOR COMPLETE LISTING OF AVAILABLE OPTIONS.



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MODEL 123

\$963.00

ALARMPACKAGE

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

ENCLOSURERATING

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

STARTINGDEVICE

- 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 \$80.00
- 4 = 30-40 FLA \$120.00

PUMP DISCONNECTS

- 0 = no pump disconnect Base
- 4 = circuit breaker \$140.00

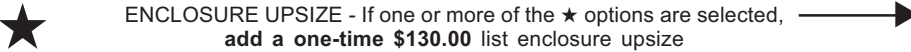
FLOAT SWITCH APPLICATION

- H or L = pump down or pump up Base
- X = no floats -\$75.00

OPTIONS *Listed below*

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

Total Options _____



Enclosure Upsize _____
TOTAL LIST PRICE _____

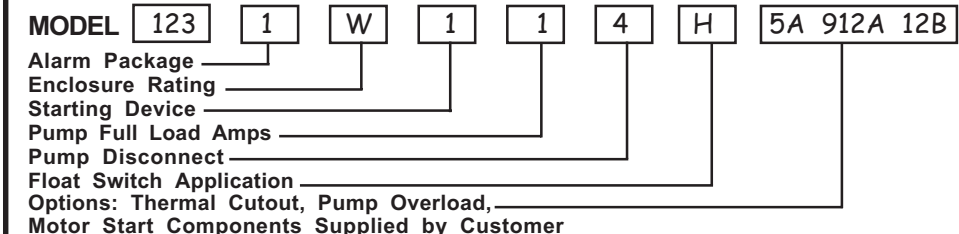
If additional features are required, call the factory for a quote on an Engineered Custom control panel.

CODE	DESCRIPTION	LIST PRICE	CODE	DESCRIPTION	LIST PRICE
<input type="checkbox"/>	1A Red beacon only / no audio	\$20.00	<input type="checkbox"/>	11D NEMA 4X alarm panel (<i>must select option 6A</i>)	\$170.00
<input type="checkbox"/>	1C Horn only / no visual	\$20.00	<input type="checkbox"/>	12B Customer supplied motor start components, mounted in enclosure by SJE-Rhombus	\$110.00
<input type="checkbox"/>	3A Alarm flasher	\$35.00	<input type="checkbox"/>	12C Motor start component, mounted and supplied by SJE-Rhombus	Call Factory
<input type="checkbox"/>	3B Manual alarm reset	\$90.00	<input type="checkbox"/>	★ 14B Main disconnect (<i>rotary style, mounted through door, non-fused</i>) (<i>must select pump circuit breakers</i>)	
<input type="checkbox"/>	★ 4A Low level cutout	\$40.00	<input type="checkbox"/>	★ 0-20 FLA	\$320.00
<input type="checkbox"/>	(<i>select option 4D if floats included</i>)		<input type="checkbox"/>	★ 20-80 FLA	\$360.00
<input type="checkbox"/>	4B Red low-level indicator & alarm	\$60.00	<input type="checkbox"/>	16A 10' cord in lieu of 20' (<i>per float</i>)	- \$2.00
<input type="checkbox"/>	(<i>must select 4A also</i>)		<input type="checkbox"/>	16B 15' cord in lieu of 20' (<i>per float</i>)	- \$1.00
<input type="checkbox"/>	4D Low-level float	\$25.00	<input type="checkbox"/>	16C 30' cord in lieu of 20' (<i>per float</i>)	\$5.00
<input type="checkbox"/>	★ 5A Thermal cutout	\$80.00	<input type="checkbox"/>	16D 40' cord in lieu of 20' (<i>per float</i>)	\$15.00
<input type="checkbox"/>	★ 5E Seal fail circuit and indicator	\$315.00	<input type="checkbox"/>	17A SJE SignalMaster® / pipe clamp ● (<i>per float</i>)	- \$2.00
<input type="checkbox"/>	6A Auxiliary alarm contact, form C type ...	\$15.00	<input type="checkbox"/>	17B SJE SignalMaster® / externally weighted ● (<i>per float</i>)	\$5.00
<input type="checkbox"/>	★ 8A Elapsed time meter	\$110.00	<input type="checkbox"/>	17C Sensor Float® / internally weighted ▲ (<i>per float</i>)	\$5.00
<input type="checkbox"/>	★ 8C Event (cycle) counter	\$90.00	<input type="checkbox"/>	17D Sensor Float® / externally weighted ▲ (<i>per float</i>)	\$7.00
<input type="checkbox"/>	9_A Pump overload		<input type="checkbox"/>	17E Sensor Float® Mini / pipe clamp ▲ (<i>per float</i>)	- \$2.00
<input type="checkbox"/>	specify amperage after number 9 followed by letter "A". Example: 912A = 12 amp pump.		<input type="checkbox"/>	17F Sensor Float® Mini / externally weighted ▲ (<i>per float</i>)	\$5.00
<input type="checkbox"/>	<input type="checkbox"/> 0-30 FLA	\$120.00	<input type="checkbox"/>	19B Lead lag selector switch	\$15.00
<input type="checkbox"/>	<input type="checkbox"/> 30-40 FLA	\$200.00	<input type="checkbox"/>	19F Fourth float to separate alarm from lag	\$25.00
<input type="checkbox"/>	10E Lockable latch	\$30.00	<input type="checkbox"/>	19T TOA (Test/Off/Automatic) switches and pump run lights through door mounted	\$160.00
<input type="checkbox"/>	★ 10F Lightning arrester	\$160.00	<input type="checkbox"/>	19U HOA (Hand/Off/Automatic) switches and pump run lights through door mounted	\$150.00
<input type="checkbox"/>	(<i>must select pump circuit breakers</i>)		<input type="checkbox"/>	19X Door mounted pump run indicator	\$40.00
<input type="checkbox"/>	10K Anti-condensation heater	\$100.00			
<input type="checkbox"/>	11C NEMA 1 alarm panel	\$65.00			
	(<i>must select option 6A</i>)				

● Mechanically-activated ▲ Mercury-activated

SAMPLE

LIST PRICE	123	\$963.00
	1	Base
	W	Base
	1	Base
	1	Base
	4	\$140.00
	H	Base
	5A	\$80.00
	912A	\$120.00
	12B	\$110.00
	Enclosure Upsize	\$130.00
TOTAL LIST PRICE		\$1543.00



- Alarm Package
- Enclosure Rating
- Starting Device
- Pump Full Load Amps
- Pump Disconnect
- Float Switch Application
- Options: Thermal Cutout, Pump Overload,
- Motor Start Components Supplied by Customer