

MODEL 124 Control Panel

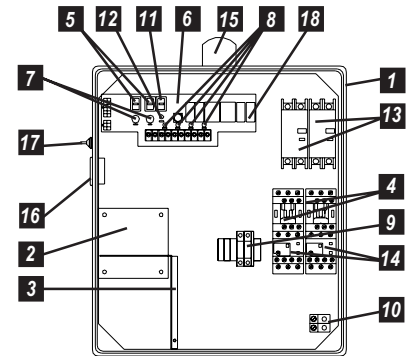
Single phase, duplex alternating pump control with intrinsically safe circuits.

The Model 124 control panel is designed for applications requiring intrinsically safe float circuits or other circuit extensions. This panel will alternately control two 120/208/240 VAC single phase pumps. The alternating action equalizes pump wear. In addition to the alternating pump control, this system provides 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, 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). **Note:** Options selected may increase enclosure size and change component layout.
2. **Intrinsically Safe Module** limits the amount of energy to switches preventing ignition of flammable gasses.
3. **Intrinsically Safe Partition** isolates intrinsically safe wiring.
4. **IEC Motor Contactors** control pumps by switching electrical lines.
5. **HOA Switches** for manual pump control (mounted on circuit board).
6. **Alternating Control Circuit Board** provides pump control and alternation. (U.S. patent 5,909,352).
7. **Green Pump Run Indicator Lights** (mounted on circuit board).
8. **Float Status Indicator Lights** (mounted on circuit board).
9. **Input Power Terminal Block**
10. **Ground Lugs**
11. **Control ON/OFF Switch** (mounted on circuit board).
12. **Control/Alarm Power Indicator Light** (mounted on circuit board).
13. **Circuit Breakers** (optional) provide pump disconnect and branch circuit protection.
14. **Adjustable Overloads** (optional) provide thermal overload protection for pump.

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



Model Shown 1241W114X

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.

PRICING/ORDERING INFORMATION

Model Number	AC Voltage	Circuit Breaker	Full Load Amps	List Price	Shipping Weight
1241W914H	120V	Yes	7-15 FLA	\$1790.00	25 lbs.
1241W924H	120V	Yes	15-20 FLA	\$1790.00	25 lbs.
1241W934H	120V	Yes	20-30 FLA	\$1870.00	25 lbs.
1241W944H	120V	Yes	30-40 FLA	\$1910.00	25 lbs.
1241W110H	120/208/240V	No	7-15 FLA	\$1720.00	25 lbs.
1241W114H	120/208/240V	Yes	7-15 FLA	\$1860.00	25 lbs.
1241W120H	120/208/240V	No	15-20 FLA	\$1720.00	25 lbs.
1241W124H	120/208/240V	Yes	15-20 FLA	\$1860.00	25 lbs.
1241W130H	120/208/240V	No	20-30 FLA	\$1800.00	25 lbs.
1241W134H	120/208/240V	Yes	20-30 FLA	\$1940.00	25 lbs.
1241W140H	120/208/240V	No	30-40 FLA	\$1840.00	25 lbs.
1241W144H	120/208/240V	Yes	30-40 FLA	\$1980.00	25 lbs.

Panels include three 20' Sensor Float® normally open control switches.

*Model 124 control panels cannot be returned. Please refer to the Product Return section on page 2.

SEE BACKSIDE FOR COMPLETE LISTING OF AVAILABLE OPTIONS.

FEATURES

- Industrial control panel is UL Listed relating to hazardous locations with intrinsically safe circuit extensions
- Standard package includes three 20' Sensor Float® control switches
- Complete with step-by-step installation instructions
- Three-year limited warranty



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MODEL 124 \$1720.00

- 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 = magnetic motor contactor 120/208/240V Base
- 9 = magnetic motor contactor 120V only 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 120V (select STARTING DEVICE option 9 above) \$ 70.00
- 120/208/240V (select STARTING DEVICE option 1 above) \$140.00
- FLOAT SWITCH APPLICATION**
- H or L = pump down or pump up Base
- X = no floats - \$75.00
- OPTIONS** *Listed below*

★ **ENCLOSURE UPSIZE** - If one or more of the ★ options are selected, add a one-time **\$150.00** list enclosure upsize →

Total Options Enclosure Upsize

TOTAL LIST PRICE

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

CODE	DESCRIPTION	LIST PRICE		CODE	DESCRIPTION	LIST PRICE
<input type="checkbox"/>	1A Red beacon only / no audio <i>(must select "0" for alarm package)</i>	\$20.00		<input type="checkbox"/>	10E Lockable latch	\$30.00
<input type="checkbox"/>	1C Horn only / no visual <i>(must select "0" for alarm package)</i>	\$20.00		<input type="checkbox"/>	10F Lightning arrester <i>(must select circuit breaker)</i>	\$160.00
<input type="checkbox"/>	3A Alarm flasher	\$35.00		<input type="checkbox"/>	10K Anti-condensation heater	\$100.00
<input type="checkbox"/>	3B Manual alarm reset	\$90.00		<input type="checkbox"/>	11C NEMA 1 alarm panel <i>(must select option 6A)</i>	\$65.00
<input type="checkbox"/>	★ 3C Red high / low indicator lights & alarm activation	\$220.00		<input type="checkbox"/>	11D NEMA 4X alarm panel <i>(must select option 6A)</i>	\$170.00
<input type="checkbox"/>	3D Float for low indicator <i>(must select option 3C)</i>	\$25.00		<input type="checkbox"/>	★ 12B Motor start components <i>(supplied by customer, mounted by SJE-Rhombus)</i>	\$455.00
<input type="checkbox"/>	★ 4A Low level cutout <i>(select Option 4D if floats included)</i>	\$55.00		<input type="checkbox"/>	★ 12C Motor start components <i>(supplied and mounted by SJE-Rhombus)</i>	Call Factory
<input type="checkbox"/>	4B Red low-level indicator & alarm <i>(must select Option 4A also)</i>	\$70.00		<input type="checkbox"/>	★ 14B Main disconnect <i>(rotary style, mounted through door, non-fused)</i> <i>(must select circuit breaker)</i>	
<input type="checkbox"/>	4D Redundant off float switch	\$25.00		<input type="checkbox"/>	★ 0-20 FLA (total of both pumps)	\$305.00
<input type="checkbox"/>	5A Thermal cutout	\$80.00		<input type="checkbox"/>	★ 20-80 FLA (total of both pumps)	\$345.00
<input type="checkbox"/>	5E Seal fail circuit and indicator	\$315.00		<input type="checkbox"/>	16A 10' cord in lieu of 20' <i>(per float)</i>	- \$2.00
<input type="checkbox"/>	★ 5M Seal fail alarm activation <i>(must select option 5E)</i>	\$60.00		<input type="checkbox"/>	16B 15' cord in lieu of 20' <i>(per float)</i>	- \$1.00
<input type="checkbox"/>	6A Auxiliary alarm contact, form C	\$15.00		<input type="checkbox"/>	16C 30' cord in lieu of 20' <i>(per float)</i>	\$5.00
<input type="checkbox"/>	★ 6G Auxiliary contact, seal fail, normally open <i>(must select option 5E)</i>	\$40.00		<input type="checkbox"/>	16D 40' cord in lieu of 20' <i>(per float)</i>	\$15.00
<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 Overload protection <i>specify amperage after number</i> <i>9 followed by letter "A" (ex. 912A = 12 amp pump)</i>			<input type="checkbox"/>	17G MilliAmpMaster™ / pipe clamp ● <i>(per float)</i>	\$0.00
<input type="checkbox"/>	<input type="checkbox"/> 0-25 FLA	\$120.00		<input type="checkbox"/>	17H MilliAmpMaster™ / externally weighted ● <i>(per float)</i>	\$7.00
<input type="checkbox"/>	<input type="checkbox"/> 25-40 FLA	\$200.00		<input type="checkbox"/>	19B Lead lag selector switch	\$15.00
<input type="checkbox"/>	10A Clear inner swing-out door w/dead front... <i>(lights and switches mounted on inner door)</i>	\$190.00		<input type="checkbox"/>	19F Fourth float to separate alarm function from lag	\$175.00
				<input type="checkbox"/>	19G Panel wired to accept fourth control switch	\$150.00
				<input type="checkbox"/>	19T TOA (Test/Off/Automatic) switches and pump run lights through door mounted	\$160.00
				<input type="checkbox"/>	19U HOA (Hand/Off/Automatic) switches and pump run lights through door mounted	\$150.00
				<input type="checkbox"/>	19X Door mounted pump run indicator	\$40.00

● Mechanically-activated ▲ Mercury-activated

SAMPLE

MODEL	124	1	W	9	1	4	H	912A			
Alarm Package									LIST PRICE	124	\$1720.00
Enclosure Rating										1	Base
Starting Device										W	Base
Pump Full Load Amps										9	Base
Pump Disconnect										1	Base
Float Switch Application										4	\$70.00
Options: Pump Overloads										H	Base
										912A	\$120.00
										TOTAL LIST PRICE	\$1910.00