

MODEL 324 Control Panel

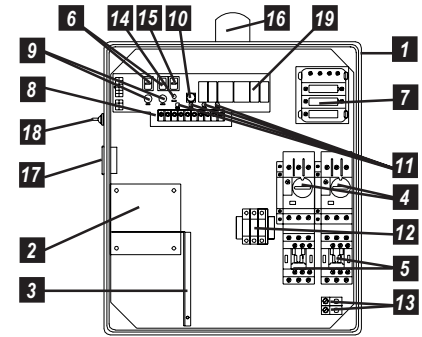
Three phase, duplex alternating pump control with intrinsically safe circuits.

The Model 324 control panel is designed for applications requiring intrinsically safe float circuits or other circuit extensions. This panel will alternately control two 208/240/480 VAC three 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 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 intrinsically safe wiring.
4. **Motor Protective Switches** provide adjustable overload, branch circuit protection and pump disconnect.
5. **IEC Motor Contactors** control pumps by switching electrical lines.
6. **HOA Switches** for manual pump control (mounted on circuit board).
7. **Multi-Tap Transformer** (208/240/480 VAC primary) provides 120V control/alarm voltage.
8. **Alternating Circuit Board** provides pump control and alternation of pumps (U.S. Patent # 5,909,352).
9. **Green Pump Run Indicator Lights** (mounted on circuit board).
10. **Control/Alarm Fuse** (mounted on circuit board).
11. **Float Status Indicator Lights** (mounted on circuit board).
12. **Input Power Terminal Block**
13. **Ground Lugs**
14. **Control/Alarm Power Indicator Light** (mounted on circuit board).
15. **Control ON/OFF Switch** (mounted on circuit board).

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



Model Shown 3241W511X

STANDARD ALARM PACKAGE

16. **Red Alarm Beacon** provides 360° visual check of alarm condition.
17. **Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating).
18. **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.
19. **Horn Silence Relay** (mounted circuit board).

NOTE: other options available.

PRICING/ORDERING INFORMATION

Model Number	AC Voltage	Full Load Amps	List Price	Shipping Weight
3241W001H	208/240/480 VAC	1.0-1.6	\$2206.00	28 lbs.
3241W101H	208/240/480 VAC	1.6-2.5	\$2206.00	28 lbs.
3241W201H	208/240/480 VAC	2.5-4.0	\$2206.00	28 lbs.
3241W301H	208/240/480 VAC	4.0-6.3	\$2206.00	28 lbs.
3241W401H	208/240/480 VAC	6.0-10.0	\$2206.00	28 lbs.
3241W511H	208/240/480 VAC	9.0-14.0	\$2266.00	28 lbs.
3241W611H	208/240/480 VAC	13.0-18.0	\$2266.00	28 lbs.
3241W621H	208/240/480 VAC	17.0-23.0	\$2286.00	28 lbs.
3241W701H	208/240/480 VAC	20.0-25.0	\$2286.00	28 lbs.

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

*Model 324 control panels cannot be returned. Please refer to the Product Return section on page 2.

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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SEE BACKSIDE FOR COMPLETE LISTING OF AVAILABLE OPTIONS.

324 W

MODEL 324 \$2206.00

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

PUMP FULL LOAD AMPS

- 001 = 1.0-1.6 FLA Base
- 101 = 1.6-2.5 FLA Base
- 201 = 2.5-4.0 FLA Base
- 301 = 4.0-6.3 FLA Base
- 401 = 6.0-10.0 FLA Base
- 511 = 9.0-14.0 FLA \$60.00
- 611 = 13.0-18.0 FLA \$60.00
- 621 = 17.0-23.0 FLA \$80.00
- 701 = 20.0-25.0 FLA \$80.00

FLOAT SWITCH APPLICATION

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

OPTIONS *Listed below*

★ ENCLOSURE UPSIZE - If you selected one or more of the ★ options, add a one-time \$160.00 list enclosure upsize

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"/>	10A Clear inner swing-out door w/dead front	\$190.00
<input type="checkbox"/>	1C Horn only / no visual	\$20.00		<i>(lights and switches mounted on inner door)</i>	
<input type="checkbox"/>	3A Alarm flasher	\$35.00	<input type="checkbox"/>	10E Lockable latch	\$30.00
<input type="checkbox"/>	3B Manual reset alarm	\$90.00	<input type="checkbox"/>	10G Lightning arrestor	\$150.00
<input type="checkbox"/>	★ 3C Red high/low indicator light	\$300.00	<input type="checkbox"/>	★ 10K Anti-condensation heater	\$100.00
	and alarm activation		<input type="checkbox"/>	11C NEMA 1 alarm panel <i>(must select option 6A)</i>	\$65.00
<input type="checkbox"/>	3D Float for low indicator	\$25.00	<input type="checkbox"/>	11D NEMA 4X alarm panel <i>(must select option 6A)</i>	\$170.00
	<i>(must select option 3C)</i>		<input type="checkbox"/>	★ 14B Main disconnect <i>(rotary style, mounted through door, non-fused)</i>	
<input type="checkbox"/>	★ 4A Low-level cutout	\$55.00		<input type="checkbox"/> ★ 0-20 FLA (total of both pumps)	\$285.00
	<i>(select option 4D if floats included)</i>			<input type="checkbox"/> ★ 20-50 FLA (total of both pumps)	\$325.00
<input type="checkbox"/>	4B Red low-level indicator & alarm	\$70.00	<input type="checkbox"/>	16A 10' cord in lieu of 20' <i>(per float)</i>	- \$2.00
	<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 Redundant off float switch	\$25.00	<input type="checkbox"/>	16C 30' cord in lieu of 20' <i>(per float)</i>	\$5.00
<input type="checkbox"/>	5A Thermal cutout/heat sensor auto	\$80.00	<input type="checkbox"/>	16D 40' cord in lieu of 20' <i>(per float)</i>	\$15.00
	reset (for pumps w/thermal switch leads)		<input type="checkbox"/>	17C Sensor Float® / internally weighted ▲ <i>(per float)</i>	\$5.00
<input type="checkbox"/>	5E Seal failure circuit & red indicator	\$315.00	<input type="checkbox"/>	17D Sensor Float® / externally weighted ▲ <i>(per float)</i>	\$7.00
	<i>(2 wire)</i>		<input type="checkbox"/>	17G MilliAmpMaster™/ pipe clamp ● <i>(per float)</i>	\$0.00
<input type="checkbox"/>	★ 5M Seal failure alarm activation	\$60.00	<input type="checkbox"/>	17H MilliAmpMaster™/ externally weighted ● <i>(per float)</i>	\$7.00
	<i>(must select option 5E)</i>		<input type="checkbox"/>	19B Lead lag selector switch	\$15.00
<input type="checkbox"/>	6A Auxiliary alarm contact, form C	\$15.00	<input type="checkbox"/>	19F Fourth float to separate alarm function from lag	\$175.00
<input type="checkbox"/>	★ 6G Auxiliary contact, seal fail,	\$40.00	<input type="checkbox"/>	19G Panel wired to accept fourth control switch	\$150.00
	normally open <i>(must select option 5E)</i>		<input type="checkbox"/>	19T TOA (Test/Off/Automatic) switches and pump run light	
<input type="checkbox"/>	★ 8A Elapsed time meter... ..	\$110.00		through door mounted	\$160.00
<input type="checkbox"/>	★ 8C Event (cycle) counter	\$90.00	<input type="checkbox"/>	19U HOA (Hand/Off/Automatic) switches and pump run light	
				through door mounted	\$150.00
			<input type="checkbox"/>	19X Door mounted pump run indicator	\$40.00

● Mechanically-activated ▲ Mercury-activated

SAMPLE

<p>MODEL 324 1 W 401 H 8AC</p> <p>Alarm Package ———— 1</p> <p>Enclosure Rating ———— W</p> <p>Pump Full Load Amps ———— 401</p> <p>Float Switch Application ———— H</p> <p>Options: Elapsed Time Meter, Event (cycle) Counter ———— 8AC</p>	<p>LIST PRICE 324 \$2206.00</p> <p>1 Base</p> <p>W Base</p> <p>401 Base</p> <p>H Base</p> <p>8A \$110.00</p> <p>8C \$90.00</p> <p>Enclosure Upsize \$160.00</p> <hr/> <p>TOTAL LIST PRICE \$2566.00</p>
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