UEL-McLAIN To bot Certified Compary Zone Controllers





- Simple Installation & Wiring
- Variety of Sizes and Options





Outdoor Reset Control

WMR Switching Relays

Applications:

- Residential
- Schools and Other Institutions
- Indirect-fired Water Heating
- Radiant Heating
 ... And Much More

Features ... Advantages ... Benefits

WMCR Circulator Controllers

- Plug-in expansion ports for easy addition of WM-ODR (outdoor reset control) and zone expansion modules WMCR-1E and WMCR-4E.
- Advanced circuit board design with plug-in relays provides long life and compatibility with most digital / programmable thermostats.
- Isolated end switch (XX) rated for 10 amps provides a single dry contact to energize the boiler, simplifying wiring. (WMCR-2 has a set of x1x1 contacts and a set of x2x2 contacts.)
- Field selectable priority zone overrides all non-priority zones ... perfect for installations with a
 zone dedicated to domestic hot water.
- Priority interrupt temporarily turns off the priority zone if activated for over 30 minutes, permitting
 other zones to operate if calling for heat.
- LED indicator lights for easy viewing of active zones.
- 100% factory-tested for reliable operation.
- 5-Year limited warranty backed by Weil-McLain covers most major parts for up to 5 years.



WMCR-6 cabled to WMCR-1E

Product Description

The WMCR family of circulator zone controllers consists of 4 separate, stand-alone control panels designed to simplify the installation, wiring, and control of systems using zone circulators. Each control consists of a double-sided printed circuit board mounted in a heavy gauge metal enclosure. These panels provide control of 2 to 6 zones (WMCR-2 to WMCR-6) with the ability to expand to a total of 15 zones with the addition of the WMCR-1E or WMCR-4E expansion modules.

Each panel is supplied with a field selectable priority zone switch that temporarily turns off all non-priority zone circulators if the priority zone (typically domestic hot water) is activated.

Electrical Specifications

W-M	Zones	Transformer	Relay		rmostat	Single Phase Motor Rating (Each Circuit)	
Model		Voltage	- · · · · · · · · · · · · · · · · · · ·		mps	120 VAC	240 VAC
WMCR-2	2	120V, 60HZ, 20VA	SPST	1	0.85	1/3 HP	1/2 HP
WMCR-3	3	120V, 60HZ, 30VA	SPST		0.85	1/3 HP	1/2 HP
WMCR-4	4	120V, 60HZ, 30VA	SPST	1	0.85	1/3 HP	1/2 HP
WMCR-6	6	120V, 60HZ, 30VA	SPST		0.85	1/3 HP	1/2 HP
W-M Model	Added Zones	Transformer Voltage (24VAC	Cur	nostat rent ips		elay Contact Rating mps @ 120 or 240 VAC	
WMCR-1E	1	Supplied by Maste Circulator Zone Cont		35	1/3 HP @ 120 VAC 1/3 HP @ 240 VAC		
WMCR-4E	4	Supplied by Maste Circulator Zone Cont		85	5 1/3 HP @ 120 VAC 1/3 HP @ 240 VAC		

The WMCR-3, 4, and 6 are equipped with ZC / ZR terminals for application to either a cold start boiler or a boiler with a tankless coil control.

An additional feature on the WMCR is the ability to add an outdoor reset control (WM-ODR) to the panel, thus resetting the boiler system water temperature based on a proportional change in outdoor temperature.

Features ... Advantages ... Benefits

WMZV Zone Valve Controllers

- Quick connect clamp terminals for easy wiring of 2, 3 and 4-wire zone valves.
- 24 VAC constant power terminals for connection of 5-wire zone valves supplied with Weil-McLain indirect-fired water heater installation kits.
- Advanced circuit board design with plug-in relays provides long life.
- Isolated end switch (XX) rated for 10 amps isolates boiler from zone valve voltage.
 - Field selectable priority zone overrides all non-priority zones ... perfect for installations with a
 zone dedicated to domestic hot water.
 - Powerful transformer up to 75 VA to operate up to 6 zones.
 - LED indicator lights for easy viewing of active zones.
 - 100% factory-tested provides reliable operation.
 - 5-Year limited warranty backed by Weil-McLain covers most major parts for up to 5 years.

Product Description

The WMZV-4 and WMZV-6 zone controllers are stand-alone panels designed to simplify the installation, wiring and control of systems using 2 to 5-wire zone valves. Each control consists of a printed circuit board mounted in a heavy gauge metal enclosure.

Each panel is supplied with a field selectable priority zone switch that de-energizes all additional zones when the priority zone calls for heat. Perfect for systems with a zone dedicated to domestic hot water production. Isolated end switch (**xx**) isolates the boiler from zone valve voltage to help overcome potential wiring problems.

The WMZV-4 and WMZV-6 zone controllers can also be combined with a Weil-McLain outdoor reset control (WM-ODR) to automatically reset boiler system water temperature based on a proportional change in outdoor temperature.



WMZV-6 Shown

Electrical Specifications

W-M Model	Zones	Transformer Output at 24 VAC	End Switch Contact Rating		
WMZV-4	4	40 VA	1/3 HP @ 120 VAC		
WMZV-6	6	75 VA	1/3 HP @ 120 VAC		

Features ... Advantages ... Benefits

WM-ODR Outdoor Reset Controller



- Resets system water temperature to provide a higher level of comfort while potentially conserving fuel.
- Quick connect screw terminals allow for hard wire connection to Weil-McLain WMZV zone valve controllers.
- Control ports for simple hook-up to Weil-McLain WMCR circulator zone controllers using supplied ribbon cable.
- Priority averride automatically disables reset feature when the priority zone calls for heat.
- LED indicator lights for viewing operational status
- 100% factory-tested for reliable operation.
- 5-Your limited warranty backed by Weil-McLain covers most major parts for up to 5 years.

Product Description



Ribbon Cable

The WM-ODR outdoor reset control is designed to interact with the WMCR and WMZV controllers as a cost effective means to raise or lower boiler system water temperatures based on a corresponding decrease or increase in outdoor temperature. Resetting the system water temperature provides a better match to the actual heating requirements, potentially conserving energy. The WM-ODR is mounted in a heavy gauge metal enclosure.

Outdoor Sensor

Housing



Outdoor and System Water Sensor

	Specifications							
Adjustments Technical Specifications								
Reset Ratio	Max Temp	Differential	Power Supply	Sensor (1000 ohms @70°F)				
0.5 to 1.5	150° to 210°	5º to 15º	20-28 VAC, 2 VA	Accurate up to 500 ft. With 18 gauge wire				

Features ... Advantages ... Benefits

WMR Switching Relays

- Contact rating 10 amps for up to 240 VAC can handle up to 1/3 hp motor at 120 VAC or 1/2 hp at 240 VAC.
- Quick connect screw terminals with clamping plates for easy installation.
- LED indicator lights for viewing control status.
- 100% factory-tested provides reliable operation.
- 5-Year limited warranty backed by Weil-McLain covers most major parts for up to 5 years.

Product Description



The WMR Switching Relays WMR-21 and WMR-22 are stand-alone relays enclosed in a heavy gauge metal enclosure. These versatile relays are designed to provide an easy method of controlling motors such as those used in circulators for hydronic systems.

Electrical Specifications

W-M	and the second	Relay Switching Action	Thermostat	Single Phase Motor Rating	
	Transformer Voltage		Current	120 VAC	240 VAC
WMR-21	120V, 60HZ, 15VA	DPST	0.18	10 A. 1/3 HP	10 A. 1/2 HP
WMR-22	120V, 60HZ, 15VA	DPDT	0.18	10 A, 1/3 HP	10 A, 1/2 HP

In the interest of continual improvements in product and performance, Weil-McLain reserves the right to change specifications without notice.



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