iO-MZR™
iO-MZRTM Motorized
Zone Register

iO-MZRTM Motorized Zone Register Installation Guide

Contents

iO-MZR™

iO-MZRTM Motorized Zone Register

Specifications

- **Operating Voltage:** 24VAC
- **Amperage:** 0.26A
- **VA Rating:** 6.5VA

- **Configuration:** Spring Open/Power Close

Product Usage Instructions

Stand-Alone Register Installation
The iO-MZRTM Motorized Zone Register can be used as a stand-alone register. Follow these steps:

1. Ensure that no more than 30% of existing registers are replaced with iO-MZRTM registers.
2. Avoid installing iO-MZRTM registers in the same room as the HVAC unit thermostat.

    Wiring Instructions for Battery Powered Thermostat Operation

    Wiring Instructions for Hardwired Thermostat Operation

Follow the wiring diagram below
JUMPER `W' AND `Y' WYG RC

Zone Control Panel Installation
When using the iO-MZRTM with a zone control system
Wire the register actuator to the proper damper terminals on the zone control panel.

- Wire the iO-MZRTM the same as a standard powered closed/spring return open zone damper.

Wiring Suggestions

For wiring inside duct work

1. Drill a hole in the register boot and run the wire conventionally.
2. Use a fish tape to pull the wire through the duct.
3. Use a duct cleaning vacuum machine to draw a plastic bag with an attached line to pull wire through the duct.

Frequently Asked Questions (FAQ)
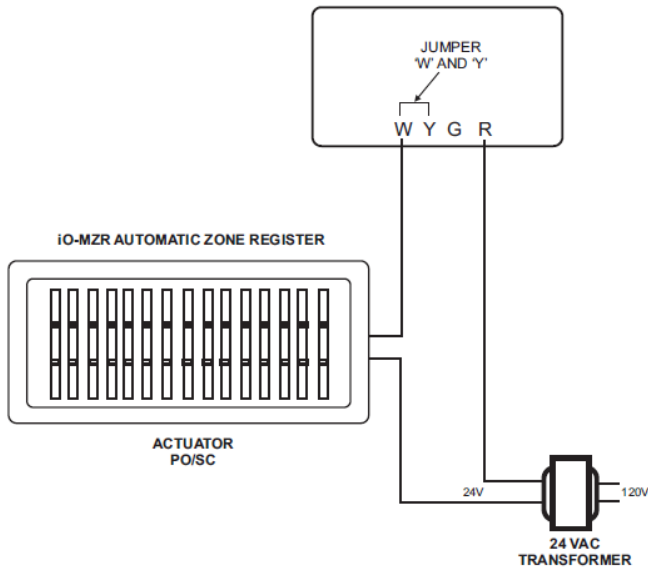### Can I install more than 30% of iO-MZRTM registers in my existing setup?
No, it is recommended not to replace more than 30% of existing registers with iO-MZRTM registers.

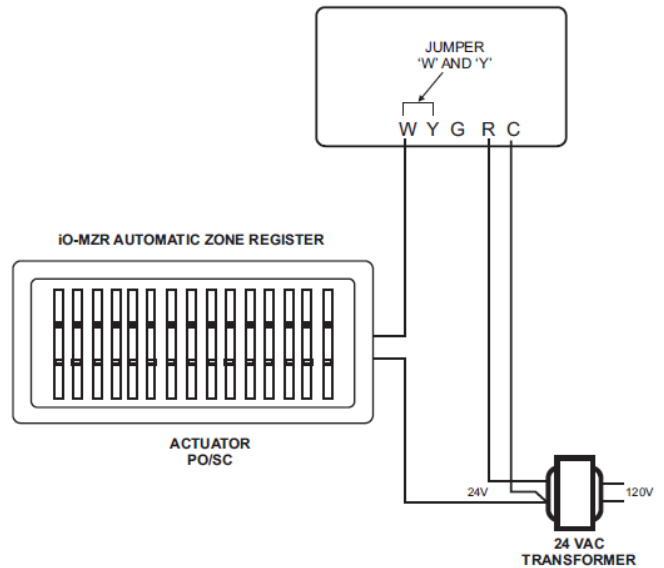## When used as a stand-alone register Installation Instructions

The iO-MZR™ Motorized Zone Register can be used as a stand-alone register. It is recommended that no more than 30% of the existing registers be replaced with iO-MZR™ registers. iO-MZR™ registers should not be installed in the same room as the HVAC unit thermostat.
When the iO-MZR™ is used as a stand-alone register, it can be wired to a hardwired or battery powered thermostat using standard 18-gauge wire. However, if the thermostat wire is run through the supply duct work, use plenum rated wire to comply with local code. The thermostat should be configured for manual heating or cooling mode of operation since it does not control the HVAC equipment. Time delays should also be disabled to provide an immediate reaction on a call for heating or cooling. When the thermostat calls for heating or cooling, the MZR™ register is powered open. When the space temperature reaches setpoint, the MZR™ register spring returns close.
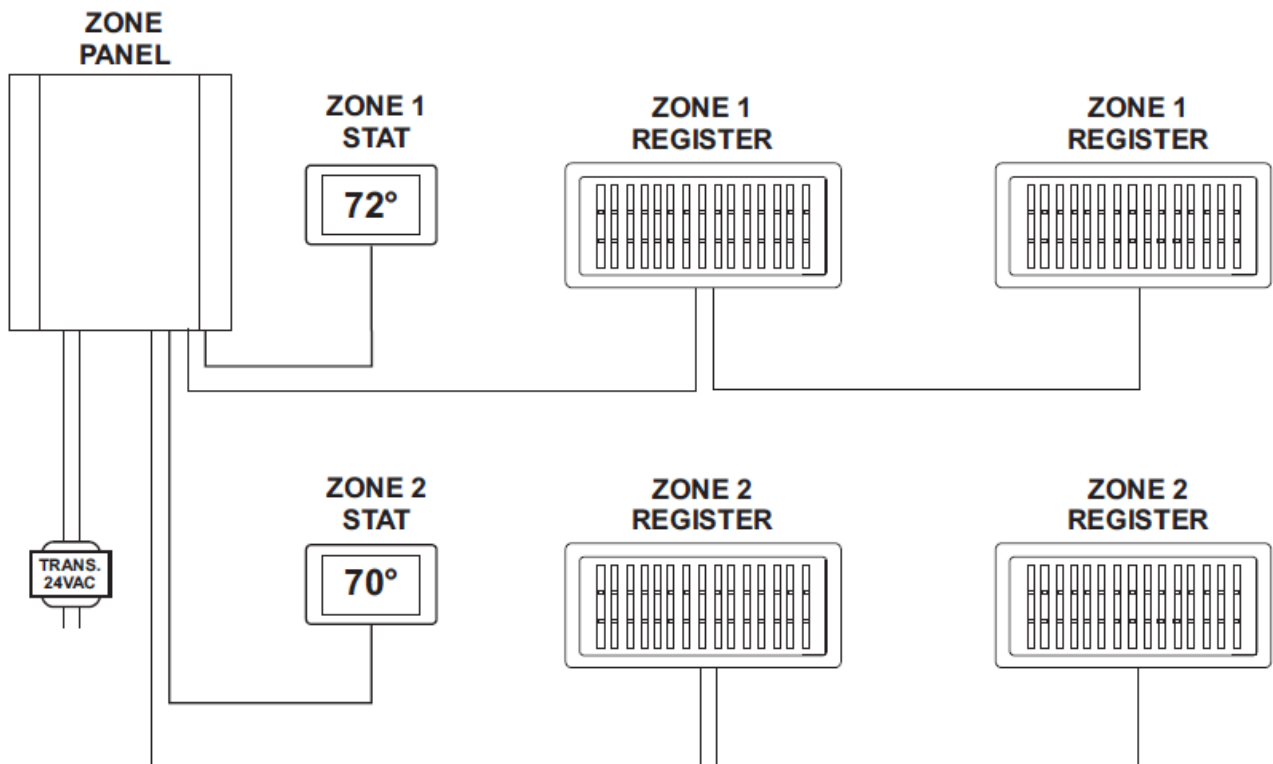
WIRING DIAGRAM FOR BATTERY POWERED THERMOSTAT OPERATION

JUMPER 'W' AND 'Y'

W Y G R

iO-MZR AUTOMATIC ZONE REGISTER

ACTUATOR PO/SC

24V   120V

24 VAC TRANSFORMER

WIRING DIAGRAM FOR HARDWIRED THERMOSTAT OPERATION

JUMPER 'W' AND 'Y'

W Y G R C

iO-MZR AUTOMATIC ZONE REGISTER

ACTUATOR PO/SC

24V   120V

24 VAC TRANSFORMER

When the iO-MZR™ is used with a zone control system, the register actuator is wired to the proper damper terminals on the zone control panel. The iO-MZR™ wires the same as a standard powered closed / spring return open zone damper.

ZONE PANEL

ZONE 1 STAT
72°

ZONE 1 REGISTER

ZONE 1 REGISTER

TRANS. 24VAC

ZONE 2 STAT
70°

ZONE 2 REGISTER

ZONE 2 REGISTER

Up to six registers may be connected to a single zone

WIRING SUGGESTIONS

The most common methods used to run wire inside the duct work is as follows:

1. Drill a hole in the register boot and run the wire in a conventional manner.

2. Use a fish tape to pull the wire through the duct.

3. Use a duct cleaning vacuum machine to draw a plastic bag with an attached line to pull wire through the duct.

If wiring from actuator is run inside the duct work, plenum rated wire must be used. AVAILABLE SIZES

- 4" X 10"
- 4" X 12"
- 4" X 14"
- 6" X 12"

COLORS

- Tan and White

APPLICATION NOTES

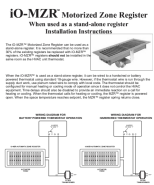- MZR zone registers are not designed to work in a
- 3-1/2" stud wall.

SPECIFICATIONS

- Operating Voltage: 24VAC
- Amperage: 0.26A
- VA Rating: 6.5VA
- Configuration: Spring Open/Power Close

www.iohvaccontrols.com
For Technical Support Call Toll Free: **866-225-5032**

Documents / Resources

	iO-MZR iO-MZRTM Motorized Zone Register [pdf] Installation Guide iO-MZR, iO-MZRTM, iO-MZRTM Motorized Zone Register, iO-MZRTM, Motorized Zone Register, Zone Register, Register

References

- **User Manual**