



MASTERZONE™

ZONE ADDER for MZS

Model MZA

- ❑ Two Zone Expansion Panel
- ❑ Modular Jacks for Easy Add-On Connection
- ❑ Screwless Terminal Blocks
- ❑ Individual Zone Indicating Lights
- ❑ Indicator LEDs for System Operation

The MasterZone™ Zone Adder (MZA2) Panel is a 2 zone expansion panel used to add zones onto an MZS4 Zone Control Panel. The MZA requires its own separate 24 Volt AC transformer. The panel also includes a modular jack cord which connects the MZA with the main MZS panel. The MZA is NOT a stand alone zoning panel and is used only as an expansion panel for one or two additional zones when using the MZS4 as the main zoning panel.

The MZA2 operates and wires similarly to the MZS4 except for the HVAC Equipment connections and Leaving Air Sensor. See wiring diagram on the back page.

When either zone thermostat calls, for either Cooling or Heating, the MZA2 panel will take the call and look at the MZS4 status. If there are no other calls open the damper to that zone, if not already open, close the dampers to the zones that are not calling for the same mode and activate the appropriate heating or cooling on the HVAC Unit. If other zones call for the same mode, the MZS panel will allow these calls and open these zone dampers until all zones are satisfied, unless there are calls from other zones for the opposite mode.

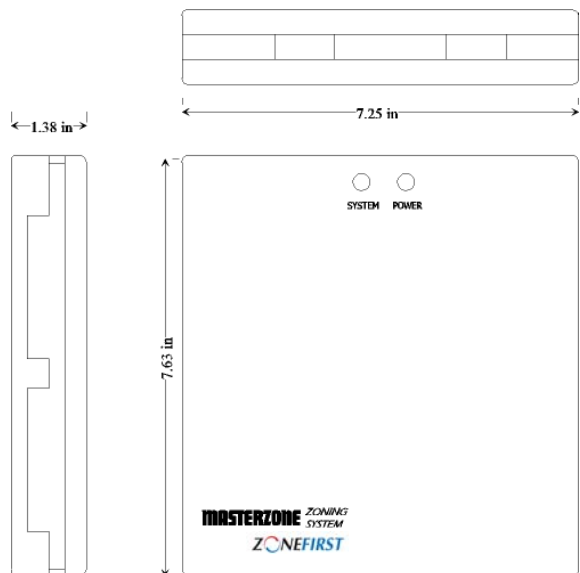
When there are opposing calls the MZS panel has a patent pending design of intelligent changeover that can allow those zones to satisfy or eventually switch over to the opposite mode if the calls for the opposite mode based on the number of those zones calling.

The MZS panel also can control two-stage and heat pump systems using single stage thermostats. This substantially reduces the overall cost of the zone system by using less expensive conventional single stage thermostats. The MZS has a built-in timer that once a call is made the timer begins and if the demand is not satisfied within that period of time the second stage will be activated until the call is satisfied. The second stage can also be activated based on the number of zones calling in place of the timer.

The panel also has simple Light Emitting Diodes (LED) indicators to easily monitor the system status. Two LEDs can be seen through the panel's front cover. These monitor the basic system operation. See the chart on Figure 1 for the various indications. By removing the cover, each zone has an indicator light to show when it is a calling zone. Using the zone indicator shows which zone(s) are calling and the damper(s) to the zones that are to be OPEN.



Dimensional Drawing



Panel Specifications

Construction - ABS plastic

Number of Zones - 2 Expansion

Dimensions - 7-5/8" x 7-1/4" x 1-3/8"

Voltage - 24 Volts AC, 50/60 Hz

Temperature Rating - 0°F to 120°F Operating, -20°F to 140°F Storage

Humidity - 5% to 95% Non-Condensing

Connection: Screwless push-in terminal blocks

WIRING DIAGRAM

