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- ❑ NEW Color Coded Push-In Wiring Blocks
- ❑ Economy Two Zone Control Panel
- ❑ Heating Only
- ❑ Cooling Only
- ❑ Single Stage Heating and Cooling
- ❑ Indicator LEDs for System Operation

The Mini-MasterZone™ Zoning Panel is a 2 zone only, single stage heating and/or cooling control panel. This electronic panel provides the simplest zoning functions and works with all standard heating and cooling thermostats, using Y-G-R-W-C. The NEW MMP2, controls only the New Plug-in Zone Motors that use modular cords, supplied with each damper. This panel is used exclusively with the ZDSP, ZDBP, OZD, RDP, RRP and RTP dampers.

All ZONEFIRST panels are designed to use a minimum of wires to make zoning simple and affordable. Any standard single stage thermostat can be used. The panels also feature a separate C – Common terminal for 24 Volt powered thermostats. All terminal blocks are color coded for each wire and have push-in connections making wiring even simpler and no need for a small screwdriver, as with all other zoning panels. The state of the art surface mount technology for all electronic components makes for a highly reliable control panel.

The zoning operation is very simple and basic. Any zone can call for heating or cooling. Once the first zone calls, the panel will only accept other calls for the same mode, either heating or cooling. Once all of these calls are satisfied, or a maximum of 20 minutes elapses, the panel will cut off the HVAC, purge the conditioned air in the duct system and then look for opposite calls. If opposite calls exist the panel will switch over and supply that mode for the opposite zone calling. When both zones are satisfied for heating and cooling, the panel will then accept Fan calls from each thermostat's Fan switch. This will provide for zoned air circulation. Zones with the thermostat's fan switch in ON, will have their damper(s) open and the fan circulating air continuously. Zones where the Fan switch is in AUTO, will close their damper until a call is needed for heating or cooling. If all thermostat Fan switches are in AUTO, the fan will be off and all dampers return to a normally open position awaiting a call.

The panel also has simple Light Emitting Diodes (LED) indicators to easily monitor the system status. LEDs can be seen through holes at the top of panel's front cover. These monitor the basic system operation. The left LEDs monitor the HVAC SYSTEM status. When Red this indicates a Heat call, Green indicates a Cool call and when both are lit they glow as Amber and indicate Fan on or a time delay. The right LED will be GREEN at all times indicating power is applied to the panel. Each zone has a small green indicator light as well showing when it is calling or the damper is open when all zones are satisfied.

The MMP2 panel is compatible with any single stage heating and cooling system and is affordable enough that it can also be used to zone heating only or cooling only systems as well.

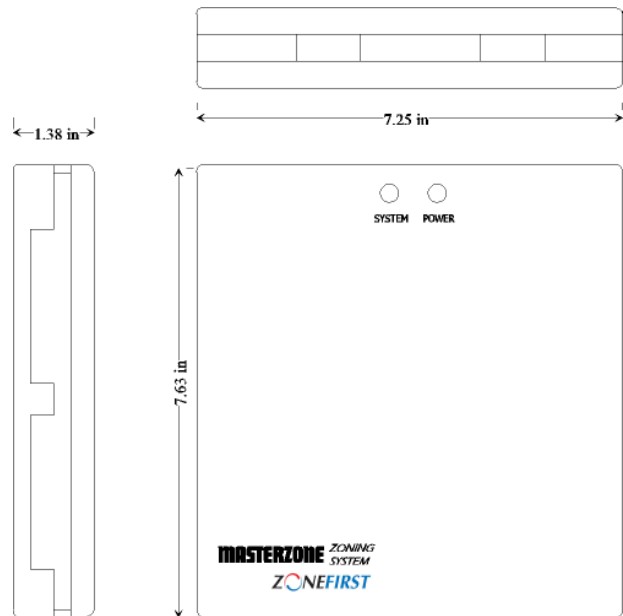
# MINI-MASTERZONE™

## Zoning System Model MMP2



MMP2 Panel Shown with Cover.

### Dimensional Drawing



### Panel Specifications

Construction – ABS plastic

Number of Zones – 2 Zones, Single Stage Heating and Cooling

Dimensions – 7-5/8" x 7-1/4" x 1-3/8"

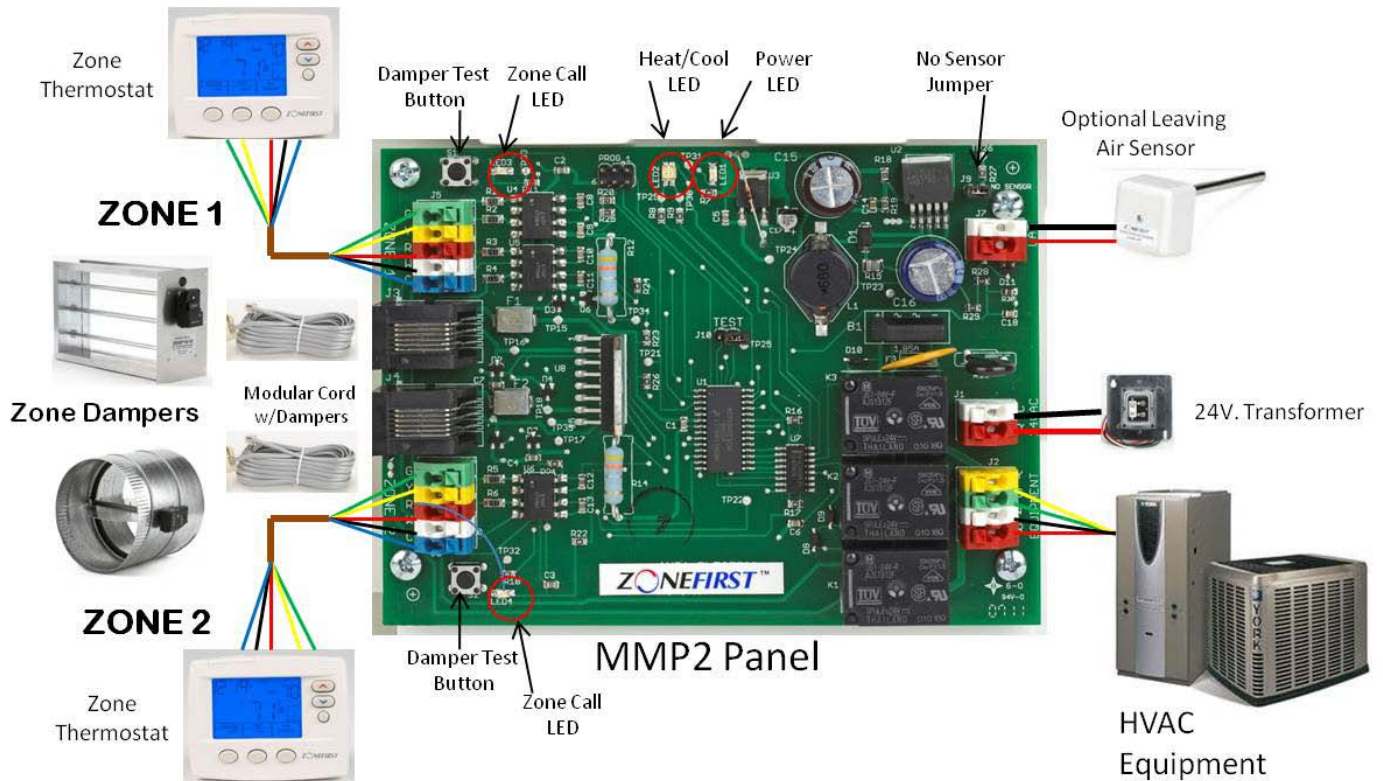
Voltage – 24 Volts AC, 50/60 Hz

Temperature Rating - 0°F to 170°F Operating, -20°F to 140°F Storage

Humidity – 5% to 95% Non-Condensing

Connection: Screwless, Push-In Terminal blocks

# WIRING DIAGRAM



## WIRING

**Zone Thermostats** – Each thermostat requires the Y-G-R-W connections for the respective Y-Cool, G-Fan, R-24V and W-Heat functions. A terminal is provided for the C-Common 24V to power the thermostat, if required. For Heating Only, only R and W are required. For Cooling Only, R, G and Y are required.

**Zone Damper Motors** – The MMP2 requires the use of ZONEFIRST'S Plug-In Damper Motors. These motors wire using the modular cord using RJ11 connectors to the motor and the panel. A 25' cord is supplied with each damper and is plugged in at the damper and at the panel. Additional dampers, up to 10, can be wired from one damper to the next via the second connection on each motor.

**Motor Test Button** – The damper motor(s) on each zone can be tested by simply pressing the button on each zone. This button can only be pressed when the Zone LED is lit. By doing so the damper motor powers closed. Releasing the button drives the damper motor back to open.

**Leaving Air Sensor** – The optional Leaving Air Sensor, Model ZPS requires two wires. Note that a small jumper is required across the two pins adjacent to the terminals. If the ZPS is wired this jumper must be removed. The ZPS limits are 170°F for heating and 45°F for cooling. Above or below these limits the Heat or Cooling are shut off until the ZPS senses a 10°F change.

**Transformer** – The MMP2 requires 24VAC to power the panel. Two wires from the transformer R and C connections wires to the Red and White terminals on the MMP2. In some instances the transformer in the HVAC may be used due to the low power requirement of the panel and damper motors.

**HVAC Equipment** – Four wires from the furnace and air conditioner are required to the MMP2. The Y-Compressor, G-Fan, R-24VAC Transformer and W-Furnace are wired to the corresponding connections on the HVAC Unit.

*Introductory List Price*

**\$180.00**

Through December 31, 2011