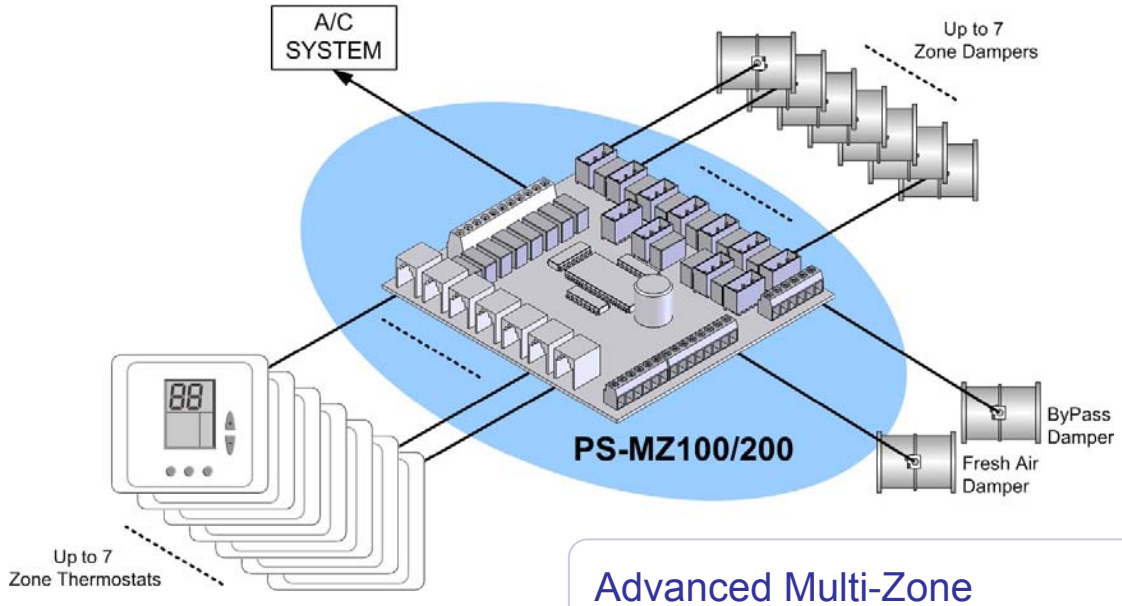
meitav-tec

Multi-Zone System – PS-MZ100/200



Advanced Multi-Zone climate control system- 24Vac and can control up to 4 or 7 zones

General

The PS-MZ 100/200 is ideal for residential, commercial or industrial applications. It is compatible with Heat/Cool or Heat Pump HVac applications and can control up to 4 (PS-MZ100) or 7 (PS-MZ200) different zones.

One of the zone serves also as the master, and different types of thermostats can be selected as zones. Zones can also be programmed for ON/OFF, ideal for times when the zone is less occupied.

The main board offers inputs for Bypass and Fresh Air dampers, and 3 different temperature sensors.

Other features such as Auto-Changeover mode and quick connectors from the thermostats to the main board, make this multi-zone the simplest and most efficient climate control system.

Features

- Main Input - 24Vac
- Controls up to 4 zones (PS-MZ100) or 7 zones (PS-MZ200)
- Zone 1 also serves as Master (same thermostat)
- Selectable system configuration- Heat/Cool or Heat pump
- Up to 5 stages of Heat and 5 stages of Cool
- Selectable Heat output- Electric or Oil/Gas (jumper selectable)
- Modes: Cool, Heat, Auto-change Over, Fan Only- selectable through Master ONLY
- T1- Indoor temperature sensor- option (for Fresh Air Damper)
- T2- Outdoor temperature sensor- option (for Fresh Air Damper)
- T3- Indoor Coil sensor (freeze protection in Cool and overheat protection in Heat)
- Output for dampers- On/Off, 3-wire, 24Vac
  - Zone dampers- On/Off, 3-wire
  - Fresh Air Dampers- 2 logics for open/close:
    1. by timer (min per hour) OR
    2. by temperature difference (T1-T2)
  - Bypass Damper (On/Off, 3-wire) output
- Display temperature available in C or F- depending on model ordered
- Economy mode (Unoccupied mode)
- Zone thermostats with weekly program- option depending on model ordered
- Weekly Program type- (5-1-1)- 4 times Set Cool/Set Heat

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Master and Zone 1 M100

Functions of thermostat as MASTER:

- Controls main system functions:
  - On/Off
  - Mode (Cool, Heat, Auto, Fan Only)
- Activate or de-activate Economy Mode (Unoccupied Mode)
- Set Fresh Air damper logic

Prog

Non-Prog

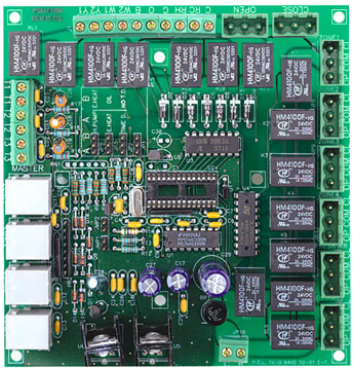
Functions of thermostat as ZONE 1:

- Local Fan
- Local set point
- Weekly program- option depending on thermostat ordered

Main Board PS-MZ100 / 200

General Features

- Main Supply- 24 Vac
- Up to 4 zones (PS-MZ100) or 7 zones (PS-MZ200)
- System Configuration selectable on the unit:
  - Heat/Cool, Heat Pump
  - Heat Output- electric Heat or Oil/Gas
- Multiple stages
- Bypass damper output (3-wire)
- Fresh Air Damper output with 2 options:
  - by timer (certain number of minutes per hour)
  - by temperature difference (T1-T2)
- 3 temperature sensors:
  - T1- indoor temperature sensor (Fresh Air Damper)
  - T2- outdoor temperature sensor (Fresh Air Damper)
  - T3- indoor coil sensor (freeze protection in Cool, overheat protection in Heat)
- Economy (Set Back) Mode available for all system



Zone Z100

General Features

- Set local On/Off status
- Set local set point
- Weekly program- option (depending on thermostat ordered)

Prog

Non-Prog

Cable Connection

The connection between the main board and the thermostat is made by telephone jack as shown, and the necessary cable is shown here.

Tel. Cable

Main Board

Zone

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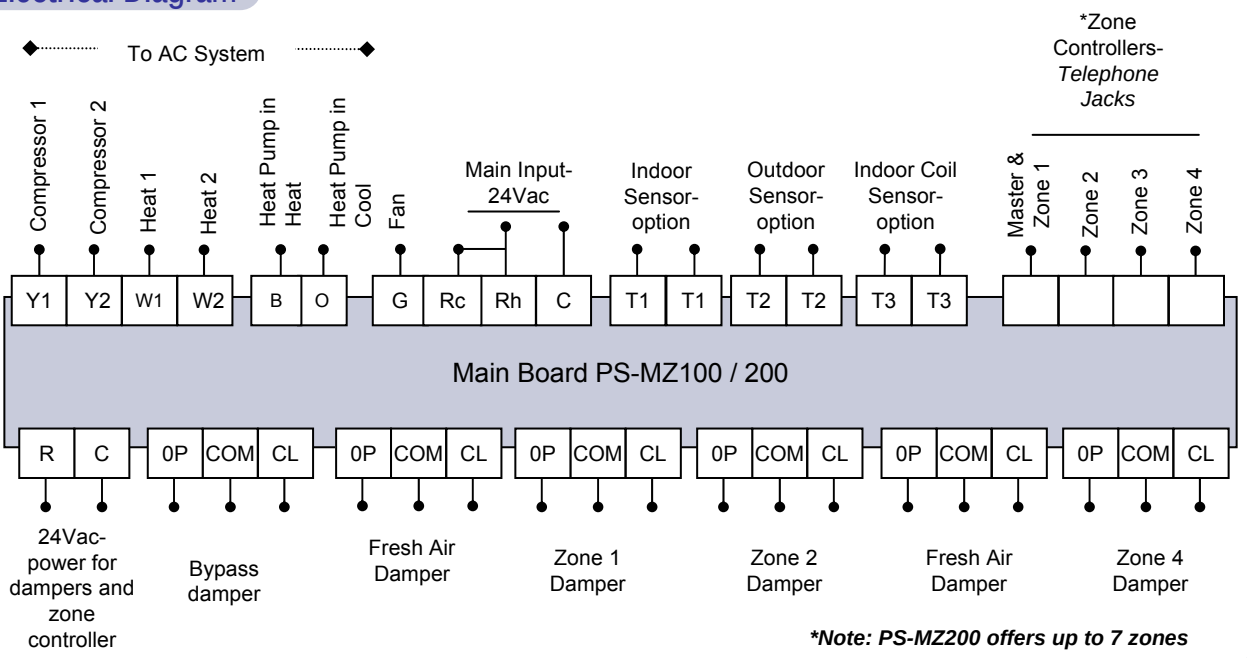
Electrical Diagram



Note: PS-MZ200 offers up to 7 zones

Components

Main Board (1 required per system)	PS-MZ100	Controls up to 4 zones
	PS-MZ200	Controls up to 7 zones
Master & Zone 1 (1 required per system)	ETN-M100-C	Master & Zone controller, wall-mount, display in °C
	ETN-M100-F	Master & Zone controller, wall-mount, display in °F
	ETN-M100-Prog-C	Master & Zone controller with 5-1-1 program, wall-mount, display in °C
	ETN-M100-Prog-F	Master & Zone controller with 5-1-1 program, wall-mount, display in °F
Thermostats for Zones	ETN-Z100-C	Zone controller, wall-mount, display in °C
	ETN-Z100-F	Zone controller, wall-mount, display in °F
	ETN-Z100-Prog-C	Zone controller with 5-1-1 program, wall-mount, display in °C
	ETN-Z100-Prog-F	Zone controller with 5-1-1 program, wall-mount, display in °F

Note: All Master and Zone thermostats are available in flush-mount models (FMT) as well.

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