EMM-3 Electronic MiniZone™ Panel

PRODUCT DATA



FEATURES

- · Uses any Honeywell four-wire thermostat.
- Optional C7735 Discharge Air Temperature Sensor Sensor for capacity control.
- SYSTEM and ZONE damper status LEDs indicate system status.
- Automatic zone changeover with 20-minute changeover timer.
- Individual zone fan control.
- Thermal circuit breaker protects panel and transformer from damage if miswired.
- Purge timer protects equipment between calls for heating and cooling.
- Uses spring-open/power-closed, spring-closed/power-open, and power-open/power-closed dampers.
- Interfaces with single or dual transformer equipment.

APPLICATION

The EMM-3 Electronic MiniZone™ Panel controls singlestage heat/cool equipment and is used on two-and three-zone applications.

For Internet access:

www.honeywell.com/yourhome/zoning/zoning_home.htm

For technical support: call 1-800-828-8367.

To download Zoning literature:

http://hbctechlit.honeywell.com

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SPECIFICATIONS

Input Ratings: Discharge Air Temperature Sensor (DATS): 24000 to 1600 ohms.

Output Ratings:

Equipment Relays and Zone Relays:

1.5A run, 3.5A inrush, 200,000 cycles (30 Vac). 1.5A run, 7.5A inrush, 100,000 cycles (30 Vac).

Humidity Ratings: 5% to 90% RH non-condensing.

Temperature Ratings: Shipping: -20° to 120°F. Operating: -40° to 150°F.

LED:

SYSTEM LED: Used to communicate equipment status:

Red: Heat mode. Green: Cool mode. Orange: Purge mode.

Flashing Red: System exceeds high DATS input. Flashing Green: System exceeds low DATS input. Flashing Orange: No DATS or DATS failure.

Off: Idle mode or Fan mode.

ZONE LED (3): Used to communicate damper status:

Green: Dampers are opening or open. No Color: Dampers are closing or closed.

Finish: White.

Dimensions: See Fig. 1.

Mounting: Mounting screws provided.

Wiring: 18 gauge wire for all equipment and system connections

Wiring Connections:

Thermostat: R-C-W-Y-G.

Dampers: M6 (Closed); M4 (Open); M1 (Common). Discharge Alr Temperature Sensor: ZMS-ZMS.

Transformer: R-C.

Equipment: RC-RH-Y-W-G.

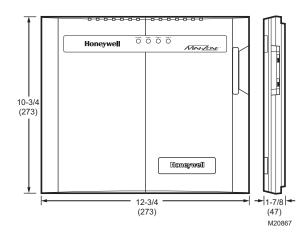


Fig. 1. EMM-3 dimensions in in. (mm).

Approvals:

Federal Communications Commission: Class B.

NEMA DC-3: Not required.

Thermostats:

Any Honeywell four-wire thermostat.

ORDERING INFORMATION

When purchasing replacement and modernization products from your TRADELINE® wholesaler or distributor, refer to the TRADELINE® Catalog or price sheets for complete ordering number.

If you have additional questions, need further information, or would like to comment on our products or services, please write or phone:

- 1. Your local Home and Building Control Sales Office (check white pages of your phone directory).
- 2. Home and Building Control Customer Relations Honeywell, 1885 Douglas Drive North

Minneapolis, Minnesota 55422-4386

In Canada—Honeywell Limited/Honeywell Limitée, 35 Dynamic Drive, Scarborough, Ontario M1V 4Z9.

International Sales and Service Offices in all principal cities of the world. Manufacturing in Australia, Canada, Finland, France, Germany, Japan, Mexico, Netherlands, Spain, Taiwan, United Kingdom, U.S.A.

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Table 1. Recommended Thermostats.

Logo	Standard Thermostats	Programmable Thermostats
Honeywell	T87F1859 and Q539A1014 T87F3855 and Q539A1469 T8400C1024 T8401C1015 T8501D1046	T8000C1002 T8001C1001 T8600D2069 T8601D2019 T8602D2018 PC8900A1007 and W8900A1004
Trol-A-Temp	_	T8601D2027

Dampers:

Power-open/power-closed. Spring-open/power-closed. Spring-closed/power-open. See Table 2 for recommended dampers.

Table 2. Recommended Dampers.

Honeywell Damper Type	Round	Rectangular
Power-open/power closed		D643 using ML6161 Motor Actuator
Spring-open/power-closed	ARD	ZD

Accessories: For required accessories, see Table 3.

Table 3. Required Accessories.

Accessory	Description	
40 VA transformer	AT140D1046	
Capacity protector	DATS C7735A1000	
Round static pressure regulator damper	7 SPRD 8 SPRD 9 SPRD 10 SPRD 12 SPRD 14 SPRD 16 SPRD	300 cfm 400 cfm 600 cfm 750 cfm 1200 cfm 1800 cfm 2400 cfm
Rectangular static pressure regulator damper	12 x 8 SPRD 12 x 10 SPRD 12 x 12 SPRD 20 x 8 SPRD 20 x 10 SPRD 20 x 12 SPRD	1000 cfm 1200 cfm 1400 cfm 1600 cfm 2000 cfm 3000 cfm

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