

HZ322 TrueZONE® Panel

SUBMITTAL SHEET



FEATURES

- Intuitive installer setup with easy-to-follow, digital display uses real language to guide installer through configuration
- Universal application for any HVAC system using conventional thermostat wiring (R W Y G C etc.)
- Standard checkout procedure ensures correct operation before leaving the job
- Robust push terminals for up to two wires per terminal
- Common-sense LEDs indicate stage of heat and damper state
- Control of two or three wire dampers with open or closed logic
- Variable-speed fan control lowers fan speed when one zone is calling for cooling
- Discharge air temperature staging down-stages equipment when near high or low limit

APPLICATION

The HZ322 TrueZONE® panel controls:

- Conventional gas, oil, or electric forced-air systems up to 2 stages heat and cool;
- Heat pump systems with single stage compressor and auxiliary heat;
- 2 or 3 forced-air zones with wired thermostats, or wireless thermostats using optional wireless adaptor.



SPECIFICATIONS

Input Ratings:

Voltage: 18-30 VAC 50/60 Hz powered by a transformer of 40 VA or more

Current Draw:

Zone Panel: 7.5 VA max. All VA specifications at 24 VAC.

Wiring:

18- or 20-gauge solid (not stranded) wire

Humidity Ratings:

5% to 90% RH non-condensing

Temperature Ratings:

Shipping: -20° to 150°F (-29° to 66°C)

Operating: -40° to 165°F (-40° to 74°C)

Dimensions:

See Fig. 1.

Mounting:

Mounts with either 2 user-supplied screws at center line to mount onto 2 x 4, or with 4 screws at corners for wall mount.

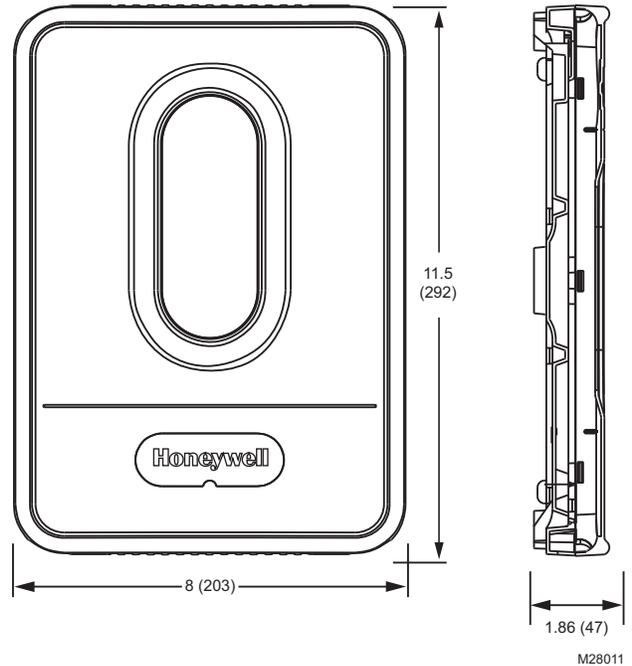


Fig. 1. HZ322 TrueZONE panel dimensions in in. (mm).

Recommended Thermostats:

See Table 1.

Recommended Dampers:

See Tables 2 and 3.

For maximum number of dampers per zone see Table 4.

Accessories:

See Table 5.

Emissions:

Complies with FCC Class B, part 15 requirements.

Table 1. Recommended thermostats.

System	Non-programmable	Programmable
Single-Stage	TH5110D, TH3110D, T87N	TH8110U, TH6110D, TH4110D
Multi-Stage	TH5220D	TH8320U, TH8321U, TH6220D, YTH9421C
Heat-Pump	TH5220D (2H/1C only), TH3210D (2H/1C only)	TH8320U, TH8321U, TH6220D (2H/1C only), TH4210D (2H/1C only), YTH9421C
Wireless	TH5320R*	TH6320R*
Commercial		TH7220U, TH8220U

Note: All versions of the model numbers listed above will work with the applications they are listed for.
*Wireless adaptor required when used with wireless thermostats.

Table 2. Recommended residential dampers.

Type	Actuation	Round	Rectangular
Zone	Spring-open/power-closed	ARD	ZD
	Power-open/power-closed	RRD	
Bypass	Barometric	SPRD	SPRD

Table 3. Recommended commercial dampers.

Type	Actuation	Round	Rectangular
Zone	Power-open/power-closed	MARD	D2 with ML6161A2009*
Bypass	Power-open/power-closed	MARD with SPC	D2 with ML6161A2009* and SPC

*Or equivalent damper and actuator.

Table 4. Maximum dampers*.

Ambient Temp.	Maximum Damper VA per Zone
100°F (38°C)	28.8
160°F (71°C)	16.8

* Use an SDCR (Slave Damper Control Relay) for additional dampers.

- Maximum dampers per panel is limited by transformer size.
- Ensure transformer is large enough to power the panel (7.5 VA) and dampers.

Table 5. Accessories.

Description	Part Number
40 VA transformer	AT140A1042*†
75 VA transformer	AT175A1008
Discharge air temperature sensor (DATS)	C7735A1000*†
Wireless adaptor	THM4000R1000†
Slave damper control relay	SDCR

*Included in HZ322K kit.
†Included in YHZ322 kits.

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