

# HZ432 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
- Advanced dual-fuel operation changeover based on outdoor temp and duration of Y2 call

## APPLICATION

The HZ432 TrueZONE® panel controls:

- Single-stage, multi-stage, conventional, or heat pump heat/cool HVAC equipment up to 3 stages of heat and 2 stages of cool;
- Dual-fuel systems with up to 2 heat pump stages and 2 fossil fuel stages;
- 2, 3, or 4 zones and is expandable to 32 zones using wired thermostats with the optional TotalZone® Add-A-Zone™ panel;
- 2, 3, or 4 zones with wireless thermostats when used with the 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: 8.5 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.

**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.

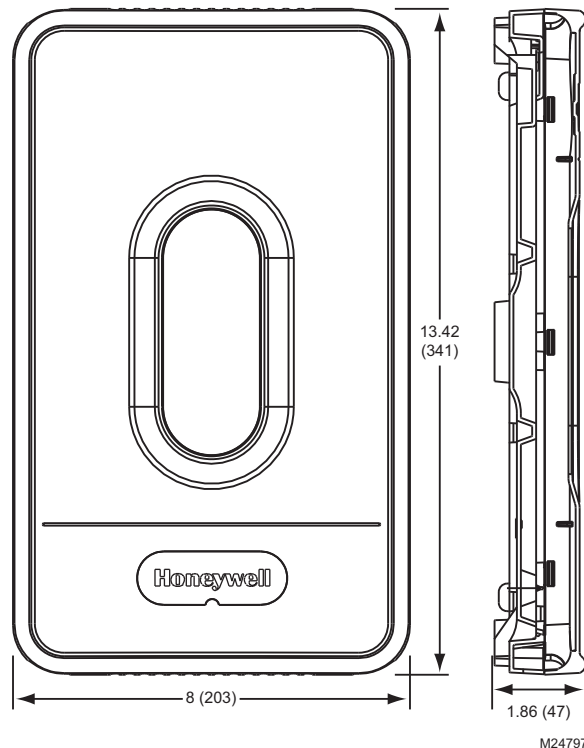


Fig. 1. HZ432 TrueZONE panel dimensions in in. (mm).

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), TH5320U* (up to 3H/2C)	TH8320U (up to 3H/2C), TH8321U (up to 3H/2C), TH6320U* (up to 3H/2C), 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.  
 \*This thermostat cannot control two stages of fossil fuel when in emergency heat mode.  
 †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 number of dampers per panel is limited by transformer size.
- Ensure transformer is large enough to power the panel (8.5 VA) and dampers.

**Table 5. Accessories.**

Description	Part Number
40 VA transformer	AT140A1042*†
75 VA transformer	AT175A1008
Discharge air temperature sensor (DATS)	C7735A1000*†
Outdoor air temperature sensor	C7089U1006 (wired) or C7089R1013† (wireless)
TotalZone® Add-A-Zone™ Control Panel	TAZ-4
Wireless adaptor	THM4000R1000†
Slave damper control relay	SDCR

\*Included in HZ432K kit.  
†Included in YHZ432 kits.

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