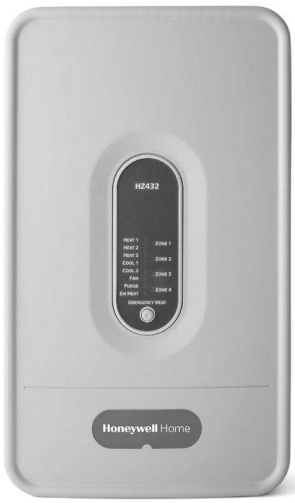
Honeywell Home

HZ432 TrueZONE® Panel

SUBMITTAL SHEET

Job Name	
Engineer	
Mechanical Contractor	
Contractor's P.O. No.	
Representative	
Notes	

Model(s)				
HZ432	Qty.		Notes	
HZ432K (Kit)	Qty.		Notes	
Approval				
Service				
Tag No.				



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.

FEATURES

- **Intuitive installer setup with easy-to-follow, digital display uses real language to guide installer through configuration.**
- **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.**

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.

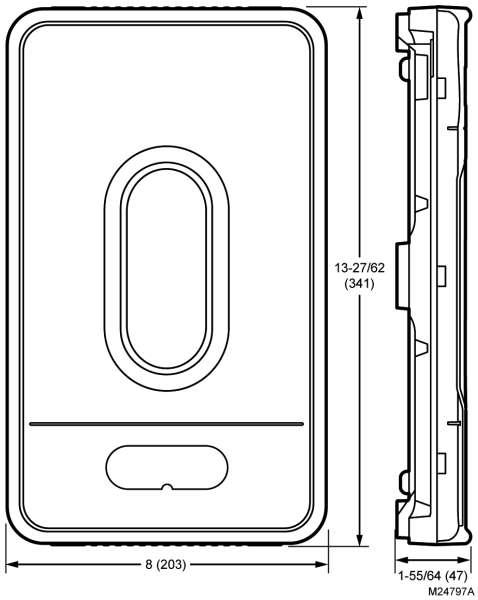


Fig. 1. HZ432 TrueZONE panel dimensions in in. (mm).

Table 1. Recommended Thermostats.

RedLINK thermostats	
TH8110R1008 (wired or wireless*) Single stage heat and cooling. No IAQ.	
TH8320R1003 (wired or wireless*) up to 3H/2C heat pump with AUX heat, or 2H/2C conventional. No IAQ.	
TH8321R1001 (wired or wireless*) up to 3H/2C heat pump with AUX heat, or 2H/2C conventional. Hum, Dehum, or Vent control when used as wired thermostat, or wireless to a THM5421R1021 EIM. EIM wired to one of the zones.	
THX9421R1021 Prestige (2-wire R and C. Wireless to THM4000R/HZ432 or THM5421R1021 EIM.*) up to 3H/2C heat pump with AUX heat, or 2H/2C conventional. Hum, Dehum, and Vent control when used with the THM5421R1021 EIM. EIM wired to one of the zones.	
TH6320R1004 programmable FocusPRO (wireless*) up to 3H/2C heat pump with AUX heat, or 2H/2C conventional. No IAQ.	
TH5320R1002 non-programmable FocusPRO (wireless*) up to 3H/2C heat pump with AUX heat, or 2H/2C conventional. No IAQ.	
Wired thermostat:	
Battery powered, hard-wired, or mechanical	The HZ432 is compatible with most standard thermostats. The HZ432 allows you to choose stage 2 (and stage 3) control to be by thermostat, timer, or % of zones. If you want the thermostats to control staging, multi-stage thermostats are required.
Power stealing or phantom voltage: (Round Smart, etc.)	We do not recommend using thermostats that operate on phantom voltage or power-stealing mode with the HZ432. Some of these models have an optional C wire. Models tested with a C wire worked correctly with the HZ432.
* RedLINK models without IAQ control need a THM4000R1000 wireless adaptor. One adaptor can be used for up to 4 RedLINK thermostats on HZ432. If IAQ control is required from the TH8321R1008 or THX9421R1021 model, a THM5421R1021 is required for the thermostat controlling IAQ equipment. That EIM wires to one of the zones on the HZ432.	

Table 2. Recommended Residential Dampers.

Type	Actuation	Round	Rectangular
Zone	Spring-open/power-closed	ARD	ZD
	Power-open/power-closed	RRD	
Bypass	Barometric	CPRD	None

Table 3. Recommended Commercial Dampers.

Type	Actuation	Round	Rectangular
Zone	Power-open/power-closed	MARD	No commercial rectangular dampers offered by Resideo
Bypass	Power-open/power-closed	MARD with SPC	

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 (Secondary 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 sensor (wired)	C7089U1006
Outdoor air sensor (wireless)	C7089R1013 (THM4000R1000 wireless adaptor required)
TotalZone® Add-A-Zone™ Control Panel	TAZ-4, TAZ-4H
Wireless adaptor	THM4000R1000
Secondary damper control relay	SDCR
*Included in HZ432K kit.	

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