i-Vu® Building Automation System
ZS Space Sensors

Carrier's line of intelligent ZS Space Sensors provide the function and flexibility you need to manage the conditions important to the comfort, productivity, and sustainability of your building. The ZS sensor is available in a variety of zone sensing combinations to address your application needs. These combinations include temperature, relative humidity, and indoor air quality (carbon dioxide). Designed to work with i-Vu controllers and the i-Vu building automation system, the ZS sensor line includes the ZS Standard, ZS Plus, ZS Pro, ZS-Pro-M and ZS Pro-F.

Features	ZS Standard	ZS Plus	ZS Pro	ZS Pro-F
				
Temp, CO_2, and humidity options	•	•	•	•
Motion sensing option	•	•	•	•
Addressable / supports daisy-chaining	•	•	•	•
Hidden communication port	•	•	•	•
Occupancy status indicator		•	•	•
Push-button occupancy override		•	•	•
Setpoint adjust		•	•	•
Large, easy- to-read LCD			•	•
Alarm indicator			•	•
Fan speed control				•
Cooling / Heating / Fan Only - mode control				•
°F to °C conversion button				•

ZS Pro with Motion

ZS2PL-HCM-CAR

- MODEL
  - [Blank]=Standard Model
  - PL=Plus Model
  - P=Pro Model
  - PF=Pro-F Model
- SENSING
  - H=Humidity
  - C=CO2
  - V=VOC
  - M=Motion
- BRANDING
  - CAR=Carrier
  - BNK=Blank

Parts Available

ZS Standard	ZS Plus	ZS Pro	ZS Pro (cont.)	ZS Pro-F
ZS2-CAR	ZS2PL-CAR	ZS2P-CAR	ZS2P-CM-CAR	ZS2PF-CAR
ZS2-C-CAR	ZS2PL-C-CAR	ZS2P-C-CAR	ZS2P-HM-CAR	ZS2PF-C-CAR
ZS2-H-CAR	ZS2PL-H-CAR	ZS2P-H-CAR	ZS2P-HCM-CAR	ZS2PF-H-CAR
ZS2-HC-CAR	ZS2PL-HC-CAR	ZS2P-HC-CAR	ZS2P-HVM-CAR	ZS2PF-HC-CAR
ZS2-M-CAR	ZS2PL-M-CAR	ZS2P-HV-CAR		ZS2PF-M-CAR
ZS2-HCM-CAR	ZS2PL-HCM-CAR	ZS2P-M-CAR		ZS2PF-HV-CAR
				ZS2PF-HCM-CAR

*Note: To order a sensor without a Carrier logo, use "BNK" in place of "CAR" above. Some models are only available without a logo.

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Sensing Element	Range	Accuracy
Temperature with any Option (excluding Humidity)	32° F to 122° F (0° C to 50° C)	±0.35° F (0.2° C)
Temperature with Humidity and any Option	50° F to 104° F (10° C to 40° C)	±0.5° F (0.3° C)
Humidity	20% to 80%	±2% typical
CO_2	400 to 1250 PPM 1250 to 2000 PPM	±30 PPM or +/- 3% of reading (greater of two) 5% of reading plus 30 PPM
Volitile Organic Compounds (VOC)	0 to 2000 PPM	±100 PPM

Power Requirements	Sensor Type	Power Required
Temperature Only	All Models	12 Vdc @ 8 mA
with Humidity	All Models	12 Vdc @ 8 mA
with VOC	All Models	12 Vdc @ 60 mA
with CO_2	All Models	12 Vdc @ 15 mA (idle) to 190 mA (CO_2 measurement cycle)

Specifications

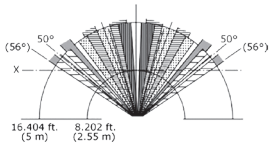
Power Supply
A controller supplies the Rnet sensor network with 12 Vdc @ 210 mA. Additional power may be required for your application. See sensor power requirements above.

Communication
115 kpbs Rnet connection between sensor(s) and controller
15 sensors max per Rnet network; 5 sensors max per control program.

Local Access Port
For connecting a laptop computer to the local equipment or i-Vu network for maintenance and commissioning.

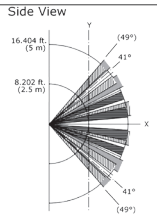
Motion Sensing

Top View



Sensor Type: passive infrared (PIR)
Distance: 16.4 ft. (5 m)
Detection Range: (HxV) 100° x 82°
Movement Speed: 2.62 to 3.94 ft/s (0.8 to 1.2 m/s)
Detection Object: 27.56 x 9.84 in. (700 x 250 mm)

Side View

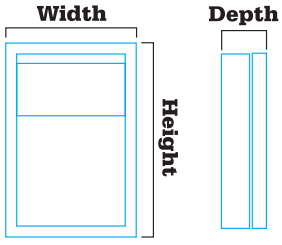


Environmental Operating Range
32° F to 122° F (0° - 50° C), 10% to 90% relative humidity, non-condensing

Mounting Dimensions
Standard 4"x 2" electrical box using provided 6/32" x 1/2" mounting screws

Dimensions

Overall
Width: 2.75 in. (6.99 cm)
Depth: 0.858 in. (2.18 cm)
Height: 4.75 in. (12.07 cm)



For more information, contact your local Carrier Controls Expert.
Controls Expert Locator:
www.carrier.com/controls-experts