



i-Vu® Building Automation System ZS2 Space Sensors



Carrier's line of intelligent ZS2 Space Sensors provide the function and flexibility you need to manage the conditions important to the comfort, productivity, and sustainability of your building. The ZS2 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 ZS2 sensor line includes the ZS2 Standard, ZS2 Plus, ZS2 Pro, ZS2-Pro-M and ZS2 Pro-F.



ZS2 Standard



ZS2 Plus



ZS2 Pro



ZS2 Pro-F



Features

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				•



ZS2 Pro with Motion

ZS2PL-HCM-CAR

BRANDING
CAR=Carrier
BNK=Blank

SENSING
H=Humidity
C=CO₂
V=VOC
M=Motion

MODEL
[Blank]=Standard Model
PL=Plus Model
P=Pro Model
PF=Pro-F Model

Parts Available

ZS2 Standard	ZS2 Plus	ZS2 Pro	ZS2 Pro (cont.)	ZS2 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.

ZS2 Space Sensors



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
Volatile Organic Compounds (VOC)	0 to 2000 PPM	±100 PPM

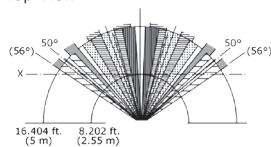
Power Requirements	Sensor Type	Power Required
Temperature Only	All Models	12 Vdc @ 8 mA
with Humidity	All Models	12 Vdc @ 8 mA
with VOC	All Models	12 Vdc @ 60 mA
with CO ₂	All Models	12 Vdc @ 15 mA (idle) to 190 mA (CO ₂ measurement cycle)

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 kbps 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)

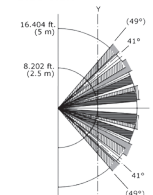
Distance: 16.4 ft. (5 m)

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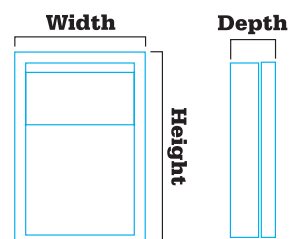
Dimensions

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