

ZS Sensors

Intelligent Room Sensors

The Automated Logic® ZS room sensors are an integral component of the WebCTRL® building automation system. These sensors provide the function and flexibility you need to manage the conditions important to the comfort, productivity, and sustainability of your facility, and are designed to work with ZN, SE, and ME line controllers.

The ZS sensors measure room temperature, relative humidity, carbon dioxide, motion and VOCs (volatile organic compounds), and are available in a variety of zone-sensing combinations to address your specific control requirements.



Features

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|---|---|---|---|---|---|
| Temp, CO ₂ and Humidity Options | • | • | • | • | • |
| Addressable / supports daisy-chaining | • | • | • | • | • |
| Hidden communication port | • | • | • | • | • |
| Occupancy status indicator | | • | • | • | • |
| Push-button occupancy override | | • | • | • | • |
| Setpoint adjust | | • | • | • | • |
| Large, easy- to-read LCD | | | • | • | • |
| Alarm indicator | | | • | • | • |
| Motion Sensing | | | | • | |
| Fan speed control | | | | • | • |
| Cooling / Heating / Fan Only - Mode Control | | | | • | • |
| °F to °C conversion button | | | | | • |
| IAQ, Volatile Organic Compound Sensing | • | • | | | |



The WebCTRL® building automation system gives you the ability to understand your building operations and analyze the results. The WebCTRL system integrates environmental, energy, security and safety systems into one powerful management tool that allows you to lower energy consumption, increase occupant comfort, and achieve sustainable building operations. Our web-based platform allows building managers to control and access information about their HVAC, lighting, central plant and critical processes on premises or remotely at any time of day.

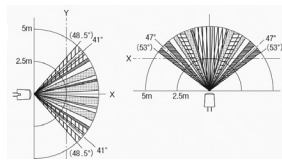


ZS Sensors

Specifications

| Sensing Element | Range | Accuracy |
|--|-------------------------------------|--|
| Temperature with any Option (excluding Humidity) | -4° to 122° F (-20° 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 | ±30PPM or +/-3% (greater of two) ±5% of reading plus 30 PPM |
| VOC | 0 to 2,000 PPM | ±100 PPM |

Motion Sensing



Sensor Type: PIR
 Distance: 16.4 feet, (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)

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

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| Power Supply | A controller supplies the Rnet sensor network with 12 Vdc @ 210 mA. Additional power may be required. See sensor power requirements above. |
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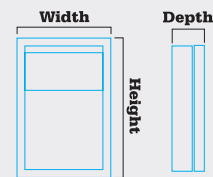
| | |
|---------------|---|
| Communication | 115 kbps Rnet connection between sensor(s) and controller 15 sensors max per Rnet network; 5 sensors max per control program |
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|-------------------|---|
| Local Access Port | For connecting a laptop computer to the local equipment or WebCTRL® network for maintenance and commissioning |
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| Environmental Operating Range | 32° 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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| Overall Dimensions | Width: 2.75" (6.99 cm) Height: 4.75" (12.07 cm) Depth: 13/16" (2.01 cm) |
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| Options & Part Numbers | ZS Standard | ZS Plus | ZS Pro | ZS Pro-F | ZS Pro-M |
|---------------------------------|-------------|--------------|-------------|--------------|--------------|
| Temperature Only | ZS2-ALC | ZS2PL-ALC | ZS2P-ALC | ZS2PF-ALC | ZS2P-M-ALC |
| Temp with CO ₂ | ZS2-C-ALC | ZS2PL-C-ALC | ZS2P-C-ALC | ZS2PF-C-ALC | ZS2P-CM-ALC |
| Temp with Humidity | ZS2-H-ALC | ZS2PL-H-ALC | ZS2P-H-ALC | ZS2PF-H-ALC | ZS2P-HM-ALC |
| Temp, Humidity, CO ₂ | ZS2-HC-ALC | ZS2PL-HC-ALC | ZS2P-HC-ALC | ZS2PF-HC-ALC | ZS2P-HCM-ALC |
| Temp, IAQ VOC | ZS2-V-BNK | ZS2PL-V-BNK | - | - | - |
| Temp, Humidity, IAQ VOC | ZS2-HV-BNK | ZS2PL-HV-BNK | - | - | - |

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