

INTELLIGENT ROOM TEMPERATURE SENSOR LCS-ZS2 SERIES



Standard



Plus



Pro
shown with motion option



Pro-F

General Description

LCS's line of intelligent zone sensors provides the function and flexibility you need to manage the conditions important to the comfort and productivity of the zone occupants. The ZS2 sensors are 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 or VOCs (Volatile Organic Compounds)). They are built to be flexible allowing for easy customization of what the user/ technician sees. Designed to work with all LCS controllers the ZS2 sensor line includes the ZS2 Standard, ZS2 Plus, ZS2 Pro and ZS2 Pro-F.

Features	ZS2 Standard	ZS2 Plus	ZS2 Pro	ZS2 Pro-F
Temp, CO ₂ and Humidity Option	√	√	√	√
VOC Options	√	√		
Neutral color	√	√	√	√
Addressable / supports daisy-chaining	√	√	√	√
Hidden communication port	√	√	√	√
Mounts on a standard 2" by 4" electrical box	√	√	√	√
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				√



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INTELLIGENT ROOM SENSOR

Model Number:
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Drawing Number:
LCS-ZS2

Date:
2/15/18

INTELLIGENT ROOM TEMPERATURE SENSOR LCS-ZS2 SERIES

Models and Options

Options / Part Numbers	ZS2	ZS2 Plus	ZS2 Pro	ZS2 Pro (motion)	ZS2 Pro-F
Temperature Only	LCS-ZS2	LCS-ZS2PL	LCS-ZS2P	LCS-ZS2P-M	LCS-ZS2PF
Temp with CO ₂	LCS-ZS2-C	LCS-ZS2PL-C	LCS-ZS2P-C	LCS-ZS2P-CM	LCS-ZS2PF-C
Temp with Humidity	LCS-ZS2-H	LCS-ZS2PL-H	LCS-ZS2P-H	LCS-ZS2P-HM	LCS-ZS2PF-H
Temp with VOC	LCS-ZS2-V	LCS-ZS2PL-V	N/A	N/A	N/A
Temp, Humidity, CO ₂	LCS-ZS2-HC	LCS-ZS2PL-HC	LCS-ZS2P-HC	LCS-ZS2P-HCM	LCS-ZS2PF-HC
Temp, Humidity, VOC	LCS-ZS2-HV	LCS-ZS2PL-HV	N/A	N/A	N/A

Specifications

Sensing Element	Range	Accuracy
Temperature (on non-Humidity models)	-4° to 122° F (-20° C to 50° C)	±0.35° F (0.2° C)
Temperature (on Humidity models)	50° F to 104° F (10° C to 40° C)	±0.5° F (0.3° C)
Humidity	10% to 90%	±1.8% typical
CO ₂	400 to 1250 PPM 1250 to 2000 PPM	±30 PPM or ±33% of reading (greater of two) ±5% of reading plus 30 PPM
VOC	0 to 2000 PPM	±100 PPM

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

Power Supply	A controller supplies the Rnet sensor network with 12 Vdc @ 210 mA. Additional power may be required for your application. See sensor ZS Installation Guide
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 for maintenance and commissioning
Environmental Operating Range	32° to 122° F (0° - 50° C), 10% to 90% relative humidity, noncondensing
Mounting	Standard 4"x 2" electrical box using provided 6/32" x 1/2" mounting screws.
Overall Dimensions	All Units: H - 4.75" (120.65 mm), D - 0.80" (20.32 mm), W - 2.75" (69.85 mm) With optional motion sensor: D - 1.16" (29.464 mm)
Motion Sensing	Sensor Type: PIR, Distance: 5 m, Detection range (HxV) 100° x 82° Movement speed: 0.8 to 1.2 m/s Detection object: 700 x 250 mm

ZS2 Pro Display - All Segments

