

ZS2 Zone Sensors

EUROPEAN COMMUNICATING SENSORS

PART NUMBERS ZS2E*-ALC



Intelligent Zone Sensors for the WebCTRL® Building Automation System

ALC's ZS2 Zone Sensors provide the function and flexibility you need, delivering precise zoning/room control to manage conditions critical to comfort, productivity, and sustainability within your building.

The ZS2 sensors are available in a variety of zone-sensing combinations and configurations to address your application needs. These combinations and configurations include temperature, relative humidity, motion, and indoor air quality (carbon dioxide and volatile organic compounds [VOCs]).

Designed to work with Automated Logic controllers and the WebCTRL Building Automation System, the ZS2 zone sensor product line includes the ZS2 standard, ZS2 Plus, ZS2 Pro, ZS2 Pro-F.

STANDARD

- Temperature, Humidity, Motion, CO₂, and VOC options
- Supports daisy-chaining
- Hidden communication port



PLUS

- All the features of Standard and
- Push-button occupancy override
- Occupancy status indicator
- Setpoint adjust



PRO

- All the features of Plus and
- Large, easy-to-read LCD
- Alarm indicator
- Push-button controls



PRO-F

- All the features of Pro and
- Fan speed control
- °F to °C conversion button
- Cooling / Heating / Fan Only Modes

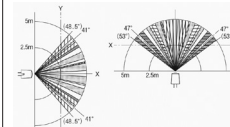


WebCTRL®

The WebCTRL building automation system gives you the ability to understand your building operations and analyze the results. Integrate environmental, energy, security and safety systems into one powerful management tool that helps you reduce energy consumption, increase occupant comfort, and achieve sustainable building operations.



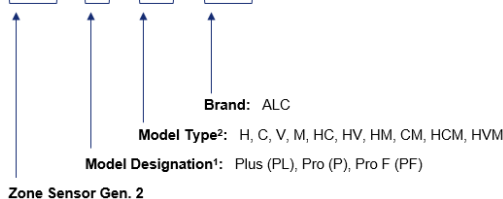
Specifications

ZS2 Zone Sensors		
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	10% to 90%	±1.8% typical
Carbon dioxide (CO ₂)	400 to 1250 PPM 1250 to 2000 PPM	±30PPM or +/-3% (greater of two) ±5% of reading plus 30 PPM
Volatile organic compounds (VOC)	0 to 2,000 PPM CO ₂ equivalent reading (CO ₂ e)	±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	Model 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 @ 60 mA
Temp with CO ₂ , or Temp / CO ₂ / Humidity	All Models	12 Vdc @ 15 mA (idle) to 100 mA (CO ₂ measurement cycle)
Power Supply	A controller supplies limited amount of power. Please refer to the controller's specifications. Additional power may be required. See sensor power requirements above.	
Other Specs		
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 WebCTRL® network for maintenance and commissioning	
Environmental Operating Range	32° to 122° F (0° - 50° C), 10% to 90% relative humidity, non-condensing	
Dimensions	Global Models	
Overall dimensions	Width: 3.56" (90.3 mm); Height: 3.77" (95.7 mm); Depth: 1.37" (34.6 mm)	

Part Numbers

Part Number Codestring:

Z S 2 E (XX) - (XXX) - A L C



NOTE 1: (XX) optional and not applicable to standard versions for Plus, Pro, Pro F only
NOTE 2: (XXX) optional sensing models up to three (3) characters

Part Number Examples: ZS2E-ALC, ZS2EP-H-ALC, ZS2EPF-HC-ALC

Style Color: White	Standard	Plus	Pro	Pro-F
Temp Only	ZS2E-ALC	ZS2EPL-ALC	ZS2EP-ALC	ZS2EPF-ALC
Temp + Humidity	ZS2E-H-ALC	ZS2EPL-H-ALC	ZS2EP-H-ALC	—
Temp + Humidity + Motion	—	—	—	—
Temp + Humidity + CO ₂	ZS2E-HC-ALC	ZS2EPL-HC-ALC	—	—
Temp + Humidity + VOC	ZS2E-HV-ALC	—	—	—
Temp + Motion	ZS2E-M-ALC	ZS2EPL-M-ALC	ZS2EP-M-ALC	ZS2EPF-M-ALC
Temp + CO ₂	ZS2E-C-ALC	ZS2EPL-C-ALC	ZS2EP-C-ALC	—
Temp + VOC	ZS2E-V-ALC	ZS2EPL-V-ALC	—	ZS2EPF-V-ALC