

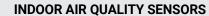
Integrated Solutions

Building Automation Made Easier With Smart Technology

Authorized Dealer of

AutomatedLogic

ZS IAQ ZONE SENSORS







INTELLIGENT IAQ SENSORS FOR THE WEBCTRL® BUILDING AUTOMATION SYSTEM

Multiple public studies1 suggest that indoor environments can profoundly impact the health and decision-making performance of building occupants. They advise that the levels of carbon dioxide, volatile organic compounds, and particulate matter that we commonly encounter in schools, healthcare facilities, and commercial office buildings should be held within healthy thresholds. Additionally, humidity can increase heating and cooling costs, support mold and bacterial growth, contributing to allergies, respiratory problems, and occupant discomfort.

Automated Logic's ZS line of intelligent IAQ zone sensors provides the function and flexibility you need to manage the conditions essential to your facility's comfort, productivity, and sustainability. ZS sensors are designed to measure room temperature, relative humidity, carbon dioxide (CO2), and volatile organic compounds (VOCs). They are available in various zone sensing combinations to implement ideal ventilation strategies and address your specific control requirements.

1) Harvard T.H. Chan School of Public Health; The COGfx Study: https://cogfx.forhealth.org US EPA Indoor Air Quality (IAQ) https://www.epa.gov/indoor-air-quality-iaq

Standard

- Temperature, Humidity, CO₂, VOC and Motion Detection 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 LCDAlarm 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









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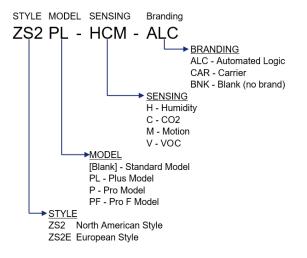






SPECIFICATIONS

ZS IAQ 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 CO2 equivalent reading (CO2e)	±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)	2 do 2 do 2 do 1 do 2 do 2
Power Requirements	Sensor Type	Power Required
Temperature Only Temperature with Humidity	All Models	12 Vdc @ 8 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 190 mA (CO ₂ measurement cycle)
Power Supply	A controller supplies the Rnet sensor network power. 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	North American Models	European Models
Overall dimensions	Width: 2.75" (69.85 mm) Height: 4.75" (120.65 mm) Depth: 1.5" (38.10 mm)	Width: 3.56" (90.42 mm) Height: 3.77" (95.76 mm) Depth: 1.5" (38.10 mm)
Overall dimensions	Width: 2.75" (69.85 mm) Height: 4.75" (120.65 mm) Depth: 1.3" (33.02 mm)	Width: 3.56" (90.42 mm) Height: 3.77" (95.76 mm) Depth: 1.3" (33.02 mm)
Part Numbering		



Sensing Capabilities Temperature Motion CO₂ SKU Brand Model Humidity ZS2-ALC ALC Standard North American Yes ZS2-M-ALC ALC Standard North American Yes Yes ZS2-C-ALC ALC Standard North American Yes Yes ZS2-H-ALC ALC Standard North American Yes Yes ZS2-V-ALC ALC Standard North American Yes ZS2-HC-ALC ALC Standard North American Yes Yes Yes Standard North American ZS2-HV-ALC ALC Yes Yes ZS2-HCM-ALC ALC Standard North American Yes Yes Yes Yes ZS2E-ALC Standard European ALC Yes ZS2E-M-ALC ALC Standard European Yes Yes ZS2E-V-ALC ALC Standard European Yes Yes Standard European ZS2E-C-ALC ALC Yes Yes ZS2E-H-ALC ALC Standard European Yes Yes ZS2E-HV-ALC ALC Standard European Yes Yes ZS2E-HC-ALC ALC Standard European Yes Yes Yes ALC Plus ZS2PL-ALC North American Yes ZS2PL-M-ALC ALC Plus North American Yes Yes ZS2PL-C-ALC ALC Plus North American Yes Yes ZS2PL-H-ALC Plus ALC North American Yes Yes ZS2PL-V-ALC ALC Plus North American Yes Yes ZS2PL-HC-ALC ALC Plus North American Yes Yes Yes Plus ZS2PL-HV-ALC ALC North American Yes Yes Yes ZS2PL-HCM-ALC ALC Plus North American Yes Yes Yes Yes Plus ZS2EPL-V-ALC ALC European Yes ZS2EPL-ALC ALC Plus Yes European ZS2EPL-M-ALC ALC Plus European Yes Yes ZS2EPL-C-ALC ALC Plus Yes European Yes ZS2EPL-H-ALC ALC Plus European Yes Yes ZS2EPL-HC-ALC ALC Plus European Yes Yes ZS2P-ALC ALC Pro North American Yes ZS2P-C-ALC ALC Pro North American Yes Yes ALC Pro ZS2P-H-ALC North American Yes Yes ZS2P-HV-ALC ALC Pro North American Yes Yes ZS2P-HC-ALC ALC Pro North American Yes Yes Yes Pro-F ZS2PF-ALC ALC North American Yes ZS2PF-M-ALC ALC Pro-F North American Yes Yes ZS2PF-C-ALC ALC Pro-F North American Yes Yes ZS2PF-H-ALC ALC Pro-F North American Yes Yes ZS2PF-HV-ALC ALC Pro-F North American Yes Yes Yes ZS2PF-HC-ALC ALC Pro-F North American Yes Yes ZS2PF-HCM-ALC ALC Pro-F Yes North American Yes Yes Yes ZS2P-M-ALC ALC Pro North American Yes Yes 7S2P-CM-ALC ALC Pro North American Yes Yes Yes ZS2P-HM-ALC ALC Pro North American Yes Yes Yes ZS2P-HVM-ALC ALC Pro North American Yes Yes Yes ZS2P-HCM-ALC ALC Pro North American Yes Yes Yes Yes ALC Pro ZS2EP-ALC European Yes ALC Pro ZS2EP-M-ALC European Yes ZS2EP-C-ALC Pro ALC European Yes Yes ZS2EP-H-ALC Pro ALC European Yes Yes ZS2EPF-V-ALC Pro-F ALC European Yes Yes ZS2EPF-M-ALC ALC Pro-F Yes European Yes ZS2EPF-ALC ALC Pro-F European Yes ZS2-V-BNK BNK Standard North American Yes Yes ZS2-HV-BNK BNK Standard North American Yes Yes Yes ZS2PL-V-BNK BNK Plus North American Yes Yes BNK Plus 7S2PL-HV-BNK North American Yes Yes Yes ZS2PF-M-BNK BNK Pro-F North American Yes Yes ZS2PF-HV-BNK BNK Pro-F North American Yes Yes ZS2PF-HCM-BNK BNK Pro-F North American Yes Yes Yes Yes ZS2P-M-BNK BNK Pro North American Yes Yes ZS2P-CM-BNK BNK Pro North American Yes Yes ZS2P-HM-BNK BNK Pro North American Yes Yes Yes ZS2P-HCM-BNK BNK Pro North American Yes Yes Yes 7S2FPF-V-BNK BNK Pro-F European Yes Yes ZS2EPF-M-BNK BNK Pro-F European Yes Yes

Branding Examples

These sensors are offered in Automated Logic brand or unbranded.







