ZS IAQ ZONE SENSORS

INDOOR AIR QUALITY SENSORS







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.

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





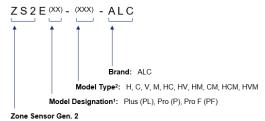
¹⁾ Harvard T.H. Chan School of Public Health; The COGfx Study: https://cogfx.forhealth.org US EPA Indoor Air Quality (IAQ) https://www.epa.gov/indoor-air-quality-iaq

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)	2.0m (4.37) (7.7) (4.37) (7.7) (4.37) (7.7) (4.37) (7.		
Power Requirements	Model 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 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:



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

 $\textbf{Part Number Examples:} \quad \textbf{ZS2E-ALC}, \textbf{ZS2EP-H-ALC}, \textbf{ZS2EPF-HC-ALC}$

Style Color: White	Standard	Plus	Pro	ProF
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 + CO2	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 + CO2	ZS2E-C-ALC	ZS2EPL-C-ALC	ZS2EP-C-ALC	-

