

Transmitters - GAS DETECTION DATASHEET AST-IS Standard CO₂ Transmitter



The AST-IS standard transmitters contain a non-dispersive, infrared sensor for accurate and reliable, indoor, carbon dioxide (CO₂) detection and are available in 3 models with different options. All models are maintenance free and a key component for climate control of buildings and other processes.

AST-AS1 is a simple, low-cost, transmitter without a display for fixed installation in the climate zone.

AST-IS5 measures both ${\rm CO}_2$ and temperature in the ambient air, has a display and can transmit data to a BAS system or controller.

AST-IS14 features a display and has an alarm with sound and light that alerts when the levels of CO, exceed defined levels.

The AST-IS standard transmitters feature 4 - 20 mA or 0 - 10 VDC linear output signals, low 24 VDC / VAC nominal voltage, standard 0 - 2,000 ppm range and CE certification.

Field calibration is not required as the units are lifetime calibrated.

KEY FEATURES

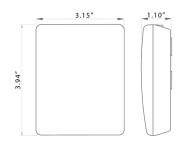
- » 4 20 mA or 0 10 VDC linear output signal
- » Operating power 24 VDC or 24 VAC nominal
- » Maintenance free, lifetime calibration
- » 0 2,000 ppm standard range
- » Relay output (AST-IS5 model only)
- » 1 LEED credit (AST-IS14 model only)
- » Attractive PVC enclosures ideal for indoor use
- » RoHS compliant circuit boards
- » CE certified

APPLICATIONS

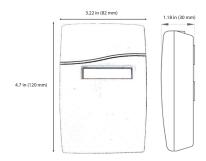
- » Residential Buildings
- » Commercial Buildings
- » Schools / Educational Institutions
- » Offices
- » ... and many more

TECHNICAL DRAWING

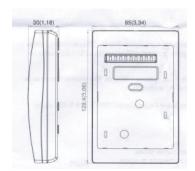
AST-IS1 (measurements are in inches)



AST-IS5



AST-IS14 (measurements are in mm and inches)



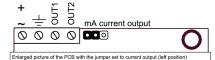


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WIRING

ELECTRICAL
Power Requirement

Humidity



+ L C C V voltage output

V voltage output

Finlarged picture of the PCB with the jumper set to voltage output (right position)

TECHNICAL SPECIFICATIONS			
GAS TYPE			
Carbon Dioxide (CO ₂)			
MECHANICAL			
AST-IS1 Enclosure	General purpose PVC, IP30 rated		
Size	3.94" x 3.15" x 1.1"		
	(100 mm x 80 mm x 28 mm)		
AST-IS5 Enclosure	General purpose PVC, IP30 rated		
Size	4.7" x 3.2" x 1.2"		
	(120 mm x 82 mm x 30 mm)		
AST-IS14 Enclosure	General purpose PVC, IP30 rated		
Size	5.11" x 3.34" x 1.18"		
	(130 mm x 85 mm x 30 mm)		
Size			

PRODUCT CODES	
Carbon dioxide (CO ₃), office wall mount	AST-IS1
Carbon dioxide (CO ₂), wall mount with LCD digital display, temperature sensor & relay	AST-IS5
Carbon dioxide (CO ₂), wall mount with LCD digital display, visual/audible alarm, mute button & 1 LEED Credit	AST-IS14

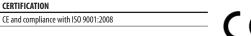
Linear Outputs	Linear 4 - 20 mA or 0 - 10 VDC signal
Relay Output (AST-IS5 only)	1 SPDT 50 VAC@1A; 24 VAC@1A (1000 ppm)
SENSOR	
Infrared CO, Sensor	
Sampling Method	Non-dispersive infrared
Monitoring Method	Diffusion
Range	0 - 2,000 ppm
,	0 - 4% volume (AST-IS18 only)
Temperature Sensor Range (AST-IS5 only)	0°C to 50°C (32°F to 122°F)
Accuracy	\pm 30 ppm, \pm 3% of reading
ENVIRONMENTAL	
Operating Temperature	0°C to 50°C (32°F to 122°F)

24 VDC or VAC

ACCESSORIES	
Metal protective guard, small, 16 gauge, galvanized metal guards for transmitters	SCS-8000-RSG



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0 - 95% RH non-condensing



