



AST-IS1 is a simple, low-cost, transmitter without a display for fixed installation in the climate zone. It contains a non-dispersive, infrared sensor for accurate and reliable, indoor, carbon dioxide (CO₂) detection. It is low maintenance and a key component for climate control of buildings and other processes.

The AST-IS1 features 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.

KEY FEATURES

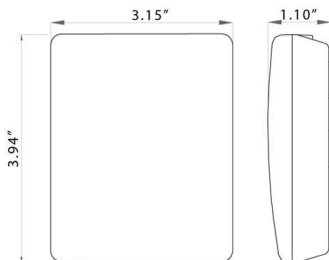
- » 4 - 20 mA or 0 - 10 VDC linear output signal
- » Operating power 24 VDC or 24 VAC nominal
- » Low maintenance, easy calibration
- » 0 - 2,000 ppm standard range
- » Attractive PVC enclosures ideal for indoor use
- » RoHS compliant circuit boards
- » CE certified

APPLICATIONS

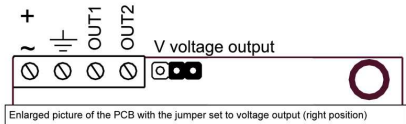
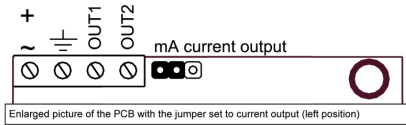
- » Residential Buildings
- » Commercial Buildings
- » Schools / Educational Institutions
- » Offices
- » ... and many more

TECHNICAL DRAWING

AST-IS1 (measurements are in inches)



WIRING



TECHNICAL SPECIFICATIONS

GAS TYPE

Carbon Dioxide (CO₂)

MECHANICAL

| | |
|-----------|--|
| Enclosure | General purpose PVC, IP30 rated |
| Size | 3.94" x 3.15" x 1.1" (100 mm x 80 mm x 28 mm) |

ELECTRICAL

| | |
|-------------------|---------------------------------------|
| Power Requirement | 24 VDC or VAC |
| Linear Outputs | Linear 4 - 20 mA or 0 - 10 VDC signal |

SENSOR

| | |
|---------------------------------|--|
| Infrared CO ₂ Sensor | |
| Sampling Method | Non-dispersive infrared |
| Monitoring Method | Diffusion |
| Range | 0 - 2,000 ppm 0 - 4% volume (AST-IS18 only) |

| | |
|----------------------|-----------------------------|
| Temperature Sensor | 0°C to 50°C (32°F to 122°F) |
| Range (AST-IS5 only) | |
| Accuracy | ± 30 ppm, ± 3% of reading |

ENVIRONMENTAL

| | |
|-----------------------|-----------------------------|
| Operating Temperature | 0°C to 50°C (32°F to 122°F) |
| Humidity | 0 - 95% RH non-condensing |

CERTIFICATION

CE and compliance with ISO 9001:2008

PRODUCT CODES

AST-IS1 Carbon dioxide (CO₂), office wall mount

