



The AST-IS Industrial Transmitters contain a non-dispersive, infrared sensor for accurate and reliable 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.

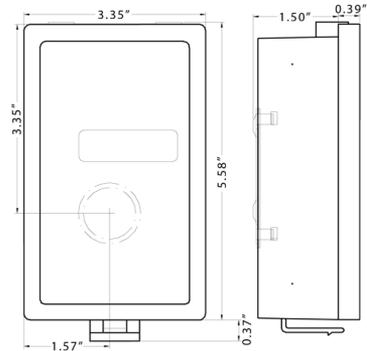
AST-IS3 is a duct mount, IP54 rated enclosure for installation in the ventilation duct.

AST-IS6 is a wall mount enclosure with protection class IP65, includes a display and is ideal for most large spaces.

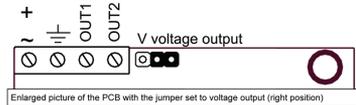
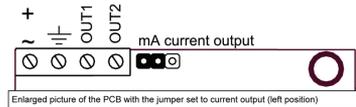
AST-IS18 is a wall mount, IP65 rated enclosure that is specially coated PCB with an extra dust/water protection filter suited for greenhouses, wineries and similar environments. Includes a temperature sensor, relay and a display.

The AST-IS transmitters feature 4 - 20 mA or 0 - 10 VDC linear output signals, low 24 VDC / VAC nominal voltage, standard 0 - 2,000 ppm range (0 - 4% volume measurement range available for winery applications) and are CE certified.

TECHNICAL DRAWING



WIRING



KEY FEATURES

- » Operating power 24 VDC or 24 VAC nominal
- » 4 - 20 mA or 0 - 10 VDC linear output signal
- » Relay output (AST-IS18 only)
- » Single internal infrared CO₂ sensor
- » LCD digital display (AST-IS6 and AST-IS18 only)
- » 0 - 2,000 ppm standard range
- » 0 - 4% volume measurement range (AST-IS18 for winery applications)
- » Maintenance free, lifetime calibration
- » RoHS compliant circuit boards
- » CE certified

APPLICATIONS

- » Residential Buildings
- » Commercial Buildings
- » Greenhouses
- » Schools / Educational Institutions
- » Wineries
- » Office Buildings
- » ... and many more

TECHNICAL SPECIFICATIONS

GAS TYPE

Carbon Dioxide (CO₂)

MECHANICAL

AST-IS3 Enclosure Industrial Housing PVC, IP54 rated

Size 5.98" x 3.34" x 1.85"
(152 mm x 85 mm x 47 mm)

AST-IS6 Enclosure Industrial Housing PVC, IP65 rated

Size 5.98" x 3.34" x 1.85"
(152 mm x 85 mm x 47 mm)

AST-IS18 Enclosure Industrial Housing PVC, IP65 rated

Size 5.59" x 3.3" x 1.81"
(142 mm x 84 mm x 46 mm)

ELECTRICAL

Power Requirement 24 VDC or VAC

Linear Outputs Linear 4 - 20 mA or 0 - 10 VDC signal

Relay Output (AST-IS18 only) 1 mA / 5V up to 1A / 50 VAC / 24 VDC

SENSORS

Infrared CO₂ Sensor

Sampling Method Non-dispersive infrared

Monitoring Method Diffusion

Range 0 - 2,000 ppm
0 - 4% volume (AST-IS18 only)

Accuracy ± 30 ppm, ± 3% of reading

Temperature Sensor Range (AST-IS18 only) 0°C to 50°C (32°F to 122°F) range

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

Carbon dioxide (CO₂), duct mount with mounting kit, IP54 industrial enclosure, no display **AST-IS3**

Carbon dioxide (CO₂), wall mount with bracket, IP65 industrial enclosure, LCD digital display **AST-IS6**

Carbon dioxide (CO₂), wall mount with bracket, IP65 industrial enclosure, LCD digital display, relay, temperature sensor, 0 - 4% volume measurement range **AST-IS18**

ACCESSORIES

Calibration kit for 17 - 103 L cylinders, 0.5 LPM flow regulator & adapter to fit 17 L cylinder **CET-715A-CK1**

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

