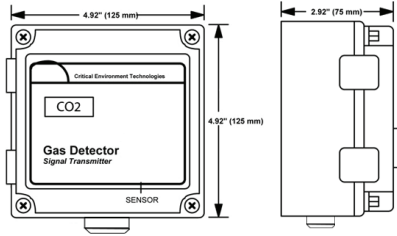


AST-I Industrial Infrared Transmitter



TECHNICAL DRAWING



SAMPLE ENGINEERING SPECIFICATIONS

Coming soon...

AST-ICD, AST-IHC & AST-INI are analog transmitters with high quality, industrial grade, miniature infrared sensors. They are supplied, as a standard in a water / dust tight, corrosion resistant polycarbonate enclosure.

These instruments use high quality, long life, dual beam sensors. The infrared sensor is supplied with a microporous PTFE filter attached to provide splash protection only. This filter is not designed to provide protection to the sensor from application of pressurized water.

KEY FEATURES

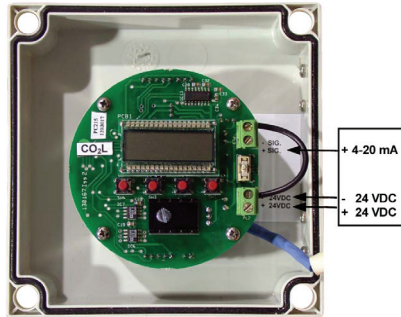
- » Dual temperature compensated pyroelectric infrared detectors
- » Low power consumption
- » RoHS compliant circuit boards
- » Fast response
- » Water / dust tight / corrosion resistant polycarbonate enclosure
- » Linear analog (4 - 20 mA) output
- » Target gases include CO₂, Hydrocarbons (including Methane), Nitrous Oxide
- » Measurement ranges from 0 - 1,000 ppm up to 0 - 100% volume (sensor & gas dependent)

APPLICATIONS

- » Commercial Buildings
- » Institutional Buildings
- » Waste Water Treatment Plants
- » Oil & Gas Plants
- » Manufacturing Plants
- » ... and many more

AST-I Industrial Infrared Transmitter

WIRING



TECHNICAL SPECIFICATIONS

GAS TYPE	
Carbon Dioxide (CO ₂)	ICD
Hydrocarbon Gases	IHC
Nitrous Oxide (N ₂ O)	INI

MECHANICAL	
Enclosure	Water / dust tight polycarbonate
Weight	255 g (9 oz)
Size	4.9" x 4.9" x 2.9" (125 mm x 125 mm x 74 mm)

ELECTRICAL	
Power Requirement	24 VDC nominal (12 - 30 VDC) (polarity protected) 5 W maximum
Current Draw	70 - 100 mA
Outputs	Linear 4 - 20 mA analog (10 bit resolution with current limit)
Fuse	500 mA anti-surge in-line fuse for supplied power

ENVIRONMENTAL <small>(sensor dependent)</small>	
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Humidity	0 - 95% RH non-condensing

PRODUCT CODES

AST-ICD INDUSTRIAL CARBON DIOXIDE (CO ₂)	
Industrial carbon dioxide (CO ₂), watertight housing, 0 - 5% volume CO ₂	AST-ICD-BW
Industrial carbon dioxide (CO ₂), watertight housing, 0 - 100% volume CO ₂	AST-ICD-CW
Industrial carbon dioxide (CO ₂), watertight housing, 0 - 100% volume CO ₂	AST-ICD-DW

AST-IHC INDUSTRIAL HYDROCARBON GASES (CH ₄)	
Industrial hydrocarbon gases, watertight housing, 0 - 100% LEL CH ₄	AST-IHC-BW
Industrial hydrocarbon gases, watertight housing, 0 - 100% volume CH ₄	AST-IHC-CW

AST-INI INDUSTRIAL NITROUS OXIDE (N ₂ O)	
Industrial nitrous oxide (N ₂ O), watertight housing, 0 - 1,000 ppm N ₂ O	AST-INI-EW

ACCESSORIES	
Calibration kit, 15 L or 17 L cylinders, 0.5 LPM flow regulator	CET-8000-CK1
Calibration kit, 34 L, 58 L, 75 L, or 103 L cylinders, 0.5 LPM flow regulator	CET-7150-CK1
Metal protective guard, small, 16 gauge, galvanized metal guards for transmitters	SCS-8000-RSG

