



The rugged, reliable AST-IRT refrigerant transmitters are available with infrared (IR) sensors to detect a wide range of refrigerant gases.

The IR sensor is a reliable method of monitoring for refrigerant gas leaks in environments that have air quality problems. The IR sensor will eliminate many false alarms in environments that contain gasoline, diesel and propane exhaust and fumes from solvents, paints, cleansers, and others.

AST-IRT transmitters output a linear 4 - 20 mA signals that can be sent to a controller or building automation system.

The standard enclosure is a rugged aluminum and an optional watertight ABS fiberglass enclosure for wash down protection and stainless steel enclosure for special applications are available.

Calibration is recommended at 6 month intervals and is a simple one button zero adjustment with no calibration gas required.

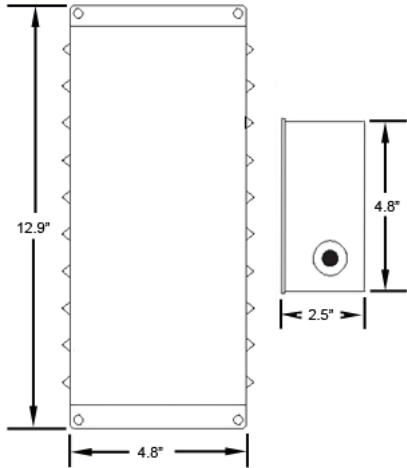
KEY FEATURES

- » Detect wide range of refrigerants
- » Specific, accurate response
- » Eliminates false alarms
- » Linear 4 - 20 mA signal output
- » Simple, one button calibration
- » Three enclosure options available
- » RoHS compliant circuit boards

APPLICATIONS

- » Refrigerated Rooms
- » Refrigerated Mechanical Rooms
- » Chiller Equipment Rooms
- » Arenas
- » Wineries
- » Breweries
- » Food Processing Plants
- » Bakeries
- » and many more

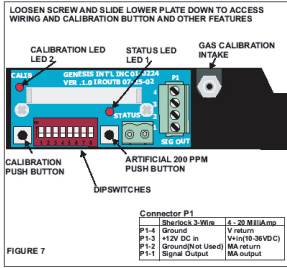
TECHNICAL DRAWING



SAMPLE ENGINEERING SPECIFICATIONS

Coming soon...

WIRING



TECHNICAL SPECIFICATIONS

GAS TYPE

Refrigerants R11
Refrigerants R12
Refrigerants R22
Refrigerants R114
Refrigerants R123
Refrigerants R134A
Refrigerants R401A (MP89)
Refrigerants R401B (MP66)
Refrigerants R402A (HP80)
Refrigerants R404A (HP62)
Refrigerants R407C (9000)
Refrigerants R408A (FX10)
Refrigerants R409A (FX56)
Refrigerants R500
Refrigerants R502
Refrigerants R507A (AZ50)

MECHANICAL

Enclosure	Painted aluminum
Weight	900 g (2.0 lbs)
Size	12.9" x 4.8" x 2.5" (327 mm x 122 mm x 62 mm)

ELECTRICAL

Power Requirement	24 VDC (nominal)
Outputs	Linear 4 - 20 mA signal
Wiring	18 gauge shielded, three-conductor
Fuse	Automatic resetting thermal

ENVIRONMENTAL (sensor dependent)

Operating Temp.	
Chiller Room Model	0°C to 43°C (32°F to 110°F)
Freezer Room Model	-40°C to 43°C (-40°F to 110°F)
Humidity	0 - 95% RH non-condensing

PRODUCT CODES

AST-IRT - [] - [] - [] - [] - []

Model: _____
C Chiller Room Model
F Freezer Room Model

Single Channel Sensor: _____
Infrared

- R11** R11 sensor (0 - 1,032 ppm)
- R12** R12 sensor (0 - 1,032 ppm)
- R22** R22 sensor (0 - 1,032 ppm)
- R114** R114 sensor (0 - 1,032 ppm)
- R123** R123 sensor (0 - 1,032 ppm)
- R134A** R134A sensor (0 - 1,032 ppm)
- R401A** R401A sensor (0 - 1,032 ppm)
- R401B** R401B sensor (0 - 1,032 ppm)
- R402A** R402A sensor (0 - 1,032 ppm)
- R404A** R404A sensor (0 - 1,032 ppm)
- R407C** R407C sensor (0 - 1,032 ppm)
- R408A** R408A sensor (0 - 1,032 ppm)
- R409A** R409A sensor (0 - 1,032 ppm)
- R500** R500 sensor (0 - 1,032 ppm)
- R502** R502 sensor (0 - 1,032 ppm)
- R507A** R507A sensor (0 - 1,032 ppm)

Options: _____
 - None
W Water / dust tight ABS fiberglass enclosure
tbd Stainless steel enclosure

ACCESSORIES

Calibration kit for 17, 34, 58, 74, 103 L cylinders, 0.5 LPM flow regulator & adapter to fit 17 L cylinder CET-715A-CK1

