



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.

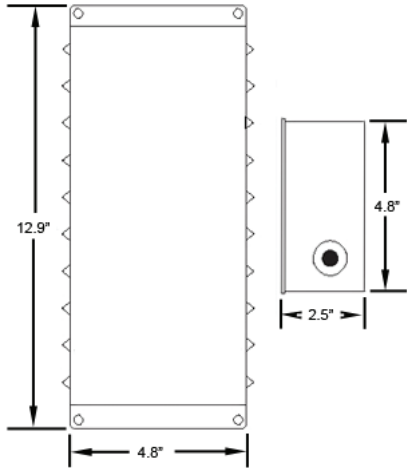
KEY FEATURES

- » 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

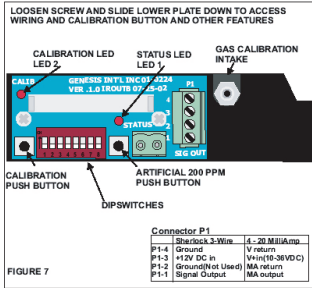


FIGURE 7

TECHNICAL SPECIFICATIONS

GAS TYPE

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

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 dependant)

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

CHILLER ROOM MODEL

Refrigerants R12, 0 - 1,032 ppm	AST-IRT-C-R12
Refrigerants R22, 0 - 1,032 ppm	AST-IRT-C-R22
Refrigerants R114, 0 - 1,032 ppm	AST-IRT-C-R114
Refrigerants R123, 0 - 1,032 ppm	AST-IRT-C-R123
Refrigerants R134A, 0 - 1,032 ppm	AST-IRT-C-R134A
Refrigerants R401A (MP89), 0 - 1,032 ppm	AST-IRT-C-R401A
Refrigerants R401B (MP66), 0 - 1,032 ppm	AST-IRT-C-R401B
Refrigerants R402A (HP80), 0 - 1,032 ppm	AST-IRT-C-R402A
Refrigerants R404A (HP62), 0 - 1,032 ppm	AST-IRT-C-R404A
Refrigerants R407C (9000), 0 - 1,032 ppm	AST-IRT-C-R407C
Refrigerants R408A (FX10), 0 - 1,032 ppm	AST-IRT-C-R408A
Refrigerants R409A (FX56), 0 - 1,032 ppm	AST-IRT-C-R409A
Refrigerants R500, 0 - 1,032 ppm	AST-IRT-C-R500
Refrigerants R502, 0 - 1,032 ppm	AST-IRT-C-R502
Refrigerants R507A (AZ50), 0 - 1,032 ppm	AST-IRT-C-R507A

FREEZER ROOM MODEL

Refrigerants R12, 0 - 1,032 ppm	AST-IRT-F-R12
Refrigerants R22, 0 - 1,032 ppm	AST-IRT-F-R22
Refrigerants R114, 0 - 1,032 ppm	AST-IRT-F-R114
Refrigerants R123, 0 - 1,032 ppm	AST-IRT-F-R123
Refrigerants R134A, 0 - 1,032 ppm	AST-IRT-F-R134A
Refrigerants R401A (MP89), 0 - 1,032 ppm	AST-IRT-F-R401A
Refrigerants R401B (MP66), 0 - 1,032 ppm	AST-IRT-F-R401B
Refrigerants R402A (HP80), 0 - 1,032 ppm	AST-IRT-F-R402A
Refrigerants R404A (HP62), 0 - 1,032 ppm	AST-IRT-F-R404A
Refrigerants R407C (9000), 0 - 1,032 ppm	AST-IRT-F-R407C
Refrigerants R408A (FX10), 0 - 1,032 ppm	AST-IRT-F-R408A
Refrigerants R409A (FX56), 0 - 1,032 ppm	AST-IRT-F-R409A
Refrigerants R500, 0 - 1,032 ppm	AST-IRT-F-R500
Refrigerants R502, 0 - 1,032 ppm	AST-IRT-F-R502
Refrigerants R507A (AZ50), 0 - 1,032 ppm	AST-IRT-F-R507A

OPTIONS (to be added to the end of the product code)

Water / dust tight ABS fiberglass enclosure	W
Stainless steel enclosure	tbd

