

AST-IRT Refrigerant Transmitters

**Analog transmitters
with infrared sensors
for accurate, specific
refrigerant leak
detection**



The AST-IRT series are rugged, reliable analog transmitters with infrared sensors to detect a wide range of refrigerant gases including Ammonia. Specific, accurate response eliminates the false alarms that solid-state sensors can cause.

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

Use with any of Critical Environment Technology's family of controllers: MAC, PAC or PDC.

The standard housing is rugged aluminum and an optional watertight ABS fiberglass housing is available to suit different applications.

Simple one button calibration is easily performed in the field.

Applications:

**Chiller Rooms
Freezers
Arenas
Food plants - Ammonia
Wineries
Breweries
... and many more**

AST-IRT Refrigerant Transmitters

SENSOR TYPE

Non-dispersive infrared sensor, calibrated to monitor for a specific refrigerant gas.

REFRIGERANT GAS TYPE

Ammonia R717 (NH₃)

R11

R12

R22

R114

R123

R134A

R401A (MP89)

R401B (MP66)

R402A (HP80)

R404A (HP62)

R407C (9000)

R408A (FX10)

R409A (FX56)

R500

R502

R507A (AZ50)

OPTIONS

Watertight ABS Fiberglass Housing

Stainless Steel Housing

INSTALLATION

Mount securely on a wall with little or no vibration.

Install in vertical position only.

For refrigerants mount 18" to 24" from the floor

For Ammonia mount on or near the ceiling

CALIBRATION

Zero adjustment recommended at six month intervals

OTHER CET TRANSMITTERS

Infrared CO₂ - Industrial and HVAC

Infrared Hydrocarbons

Electrochemical Toxic Gases

Explosion proof Transmitters

SPECIFICATIONS

ENCLOSURE

Standard

Painted Aluminum

Size

12.9" x 4.8" x 2.5"

327 mm x 122 mm x 62 mm

Weight

2 pounds 900 grams

RANGE

0 - 1032 ppm

SENSITIVITY

+/- 1 ppm at 25 degrees C, 45% RH

RESOLUTION

1 ppm

ACCURACY

+/- 5 ppm plus 2% over full scale

RESPONSE TIME

Under 60 seconds

OPERATING TEMPERATURE

Standard model

0 to 43 degrees C 32 to 110 degrees F

Freezer Room model

-40 to 43 degrees C -40 to 110 degrees F

HUMIDITY

0 to 90% RH non condensing

CERTIFICATION

ETL

OUTPUT

Linear 4 to 20 mA signal

POWER & WIRING

10 to 36 Volts DC

Three conductor, 18 gauge shielded

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