

AST-IRT Refrigerant Transmitters



Applications:
Chiller Rooms, Freezers, Arenas,
Food plants, Wineries, Breweries
... and many more

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.



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

SPECIFICATIONS

ENCLOSURE

Standard Size	Painted Aluminum 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

OTHER CET TRANSMITTERS

- Infrared CO2 - Industrial and HVAC
- Infrared Hydrocarbons
- Electrochemical Toxic Gases
- Explosion proof Transmitters



HAZARDOUS GAS DETECTION

145 - 7391 Vantage Way, Delta, BC, Canada V4G 1M3
 Toll free: 877-940-8741 Ph: 604-940-8741 Fax: 604-940-8745 www.critical-environment.com



INDOOR AIR QUALITY

yes Environment Technologies www.yestek.com