

## PRODUCT BROCHURE

# A2L CGAS DETECTORS

## WHY A2L REFRIGERANT LEAK DETECTION MATTERS

A2L refrigerants can pose fire hazards if they leak and accumulate in sufficient concentrations. Additionally, asphyxiation risks arise as these gases displace oxygen, and direct contact can cause cryogenic burns.

CET's A2L cGas IR Refrigerant Detectors provide both low and acute refrigerant leak detection, ensuring comprehensive monitoring and safety.

## APPLICATIONS

- Mechanical & Chiller Equipment Rooms
- Supermarkets, Grocery Stores
- Schools, Hotels, Office Buildings
- Shopping Malls, Apartment Buildings
- Theaters, Auditoriums
- Refrigerant Piping & Pipe Shafts
- Walk-in Coolers & Freezers
- Food Processing & Beverage Service Facilities



Low Range (OEL), High Range (2000 ppm, 25%LFL)



**THE  
GAS DETECTION  
EXPERTS.**

WWW.CETCI.COM  
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# A2L CGAS DETECTORS

- R32, R454A, R454B, R454C, R455A, R1234YF, R1234ZE
- Provides early leak detection while minimizing false alarms
- Supports analog output as well as digital communication protocols
- Meets ASHRAE 15-2024 and CSA B52:23 standards

## RELIABLE DETECTION FOR EVERY ENVIRONMENT

CET's cGas IR Refrigerant Detectors are engineered for A2L leak detection, delivering reliable performance in both high- and low-risk environments. From ducted HVAC systems and machinery rooms to complex piping networks, our expanded IR detector lineup offers the flexibility and accuracy your systems require.

- Low-range models monitor leaks approaching toxicity thresholds in occupied spaces such as walk-in coolers, freezers, and mechanical rooms, helping maintain concentrations below the 8-hour TWA OEL limits.
- High-range models safeguard areas like shafts, branch selector boxes, and other zones with large refrigerant volumes, quickly detecting high concentrations during a leak.

## FEATURES

- Accurate, low level or acute level leak detection
- Long life, NDIR sensor with dual beam technology
- One 4-20 mA analog or 0-10 V output or user configurable in the field Modbus® RTU RS-485 or BACnet® MS/TP RS-485 digital output signal to a BAS or DDC
- Easy Plug & Play Smart sensor replacement, pre-calibrated ready to install
- 1 SPDT relay 30 volts, 2 amp max
- Internal buzzer
- USB port for firmware upgrades
- CSA, UL, FCC, Listed by BTL

## PRODUCT SOLUTIONS

Choose the right detector for your application:

### cGas IR Transmitter

- Accurate low-level leak detection for mechanical rooms, piping networks, and chiller spaces.
- Water/dust tight corrosion resistant enclosure with optional splash guard.

### cGas VRF IR Transmitter

- Acute leak detection for modern energy-efficient buildings utilizing Variable Refrigerant Flow (VRF) HVAC systems.
- Sleek, aesthetic design to blend into publically occupied spaces.



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