

Hotel Room Applications



Peace of mind. Guaranteed.

Continuous monitoring of refrigerant gas leaks from air conditioning units in hotel rooms.

It is common for hotel rooms to have an air conditioning unit for the comfort of the room occupants. If it isn't performing as it is supposed to because of wear and tear from continual use, improper operation, inadequate maintenance or any other cause, there is the potential for a refrigerant leak. Leaking refrigerant evaporates into a gas and is harmful for the environment and for humans to inhale. In addition, the damage a leak can cause to the air conditioner components and the loss of refrigerant can add up to costly bills for the hotel owner.

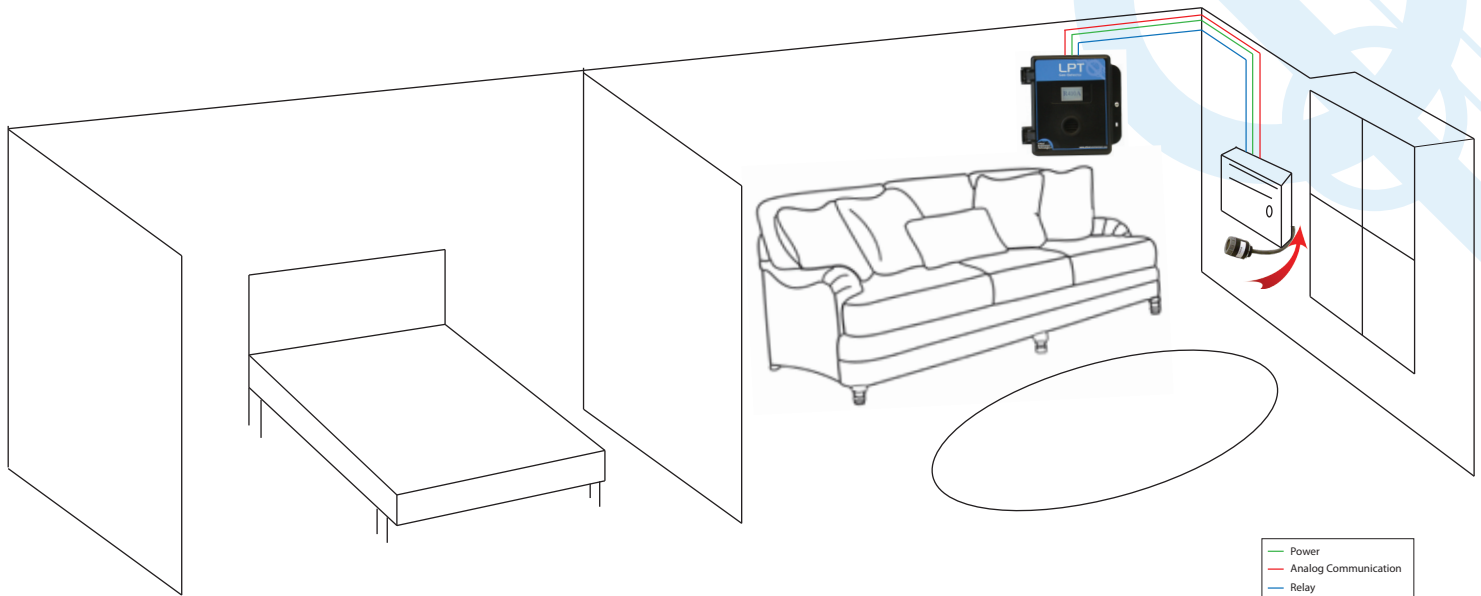
Critical Environment Technologies Canada Inc. (CETCI)'s **LPT-A** Analog Transmitter with a remote refrigerant sensor is the solution. Using a gas detection system with a remote sensor allows the sensor to be placed in the best monitoring location.

If a leak is detected, the relay in the **LPT-A** will quickly switch off the air conditioner. If a controller or Building Automation System (BAS) is used, the **LPT-A** will send a signal back to the control device to notify an alarm event has occurred.

Detecting a refrigerant leak early can save lives, keep operational costs on budget and minimize the impact on the environment.

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Typical Hotel Room Air Conditioner Leak Monitoring System



The LPT-A gas detector with a remote, solid state refrigerant sensor offers flexible monitoring capabilities, making it easier to place the sensor as close to the potential leak area as possible. The remote sensor should be mounted near the air conditioner coil and connected to the LPT-A transmitter with 18 awg wire stranded in conduit. The LPT-A transmitter can be mounted at viewing height in any preferred location within the room. The maximum length of wire between the remote sensor and the transmitter should not exceed 50 ft (15 m).

Every room that has an air conditioner should have an LPT-A transmitter with a remote refrigerant sensor to continuously monitor for refrigerant leaks that could possibly occur from the air conditioning unit. The LPT-A has one relay that can be configured to shut off the air conditioner when the unit goes into alarm status and the analog output can be set up to communicate gas level readings and alarms to a central Controller or Building Automation System (BAS).

LPT-A Transmitter Features:

- An LCD digital display that can be enabled or disabled to show gas level readings and make calibration and configuration easy to complete
- One dry contact relay 30 volts @ 2 amps for shutting off the air conditioner when a leak is detected
- An internal, audible alarm that can be enabled or disabled
- 4-20 mA or 0 - 10 volt output signal to communicate with a Controller or BAS
- 3-wire VDC or 4-wire VAC power
- A durable, water / dust tight, corrosion resistant enclosure with a door hinge, door screw and a padlock opening for security and to discourage tampering
- A copper coated interior to reduce RF interference
- RoHS compliant circuit board
- Conforms to CSA, UL, CE and FCC Standards and Directives

Remote Refrigerant Sensor Features:

- Allows for easy of mounting in remote and hard to access areas
- Solid state refrigerant sensor (0 - 2,000 ppm) with a 5 year lifespan

