

INTRODUCING

A2L REFRIGERANT SENSOR

- Leak detection module for R-454B and R-32 refrigerants
- Features integrated temperature and humidity sensors
- Easy Installation



TE Connectivity's (TE) A2L refrigerant sensor module is designed to meet or exceed all UL and CSA 60335-2-40 Annex LL requirements, supporting leak hazard mitigation without the need for field calibration. The module uses thermal conductivity sensing technology to detect R-454B and R-32 gases at 10% LFL* with $\pm 2.5\%$ accuracy and a 15s response time. With integrated temperature and humidity sensors for environmental compensation, the module can operate at temperatures ranging from -40°C to $+95^{\circ}\text{C}$ and up to 100% relative humidity. The sensor is resistant to poisoning by typical interference gases and uses automated self-calibration (ASC) to maintain performance for up to 15 years without recalibration.

TARGET MARKETS

- Appliances
- HVAC

APPLICATIONS

- Air Conditioner
- Water Heater
- Major Home Appliances

DESIGN-IN QUESTIONS

- Do you have HVAC equipment requiring refrigerant leak mitigation systems to meet local regulations?
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- What refrigerants do you currently need to detect in your HVAC systems?
- What are your operating limits?

KEY BENEFITS

- Thermal conductivity gas sensor with temperature and humidity compensation
- RS485 Modbus RTU communication protocol with Pulse Width Modulation (PWM) or Universal Asynchronous Receiver-Transmitter (UART) options
- Locking connector interface supporting customized harnessing (optional IP67 connection)
- Easy installation with compact enclosure design and multiple mounting bracket options
- Enclosed module meeting IP54 and salt spray corrosion testing standards
- Integrated anti-condensation heater
- ETL certified to meet UL and CSA 60335-2-40 Annex LL standards

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