



### APPLICATIONS:

APPLIANCE | ELECTRICAL | HVAC/R | MARINE | POOL & SPA | RV



### What A2L Refrigerant is all about and Why Mitigation Controls are required:

- ✓ The HVAC industry is shifting toward use of low GWP (global warming potential) refrigerants
- ✓ The EPA has approved the use of A2L refrigerants as a low GWP replacements for use in the HVAC industry
- ✓ A2L refrigerants are mildly flammable and therefore require mitigation controls to check for refrigerant leaks

### ICM-UA2L-24C-DUAL INCLUDES:

- ✓ Plastic-enclosed control board
- ✓ Dual refrigerant sensor for R454B and R32
- ✓ 6ft terminated wire harness

### OEM CONFIGURABLE SETTINGS

For product inquiries on different leak detection trip points, please contact [info@icmcontrols.com](mailto:info@icmcontrols.com).

The ICM-UA2L-24C-DUAL Refrigerant Detection System provides rapid-response compressor lockout and system fan activation in the event of an A2L refrigerant leak. The control board includes two ports for Modbus communication with refrigerant sensors. The control board also features an optional inverse-logic alarm contact for alerting a system controller of any fault status.

### FEATURES & BENEFITS

- ✓ Fault Monitoring
- ✓ Status, Power LED Indicators
- ✓ Dry Contact Fan Output (N.C.) and Alarm Output (N.O.)
- ✓ Dry Contact CC Output
- ✓ MODBUS Communication to A2L Refrigerant Sensor
- ✓ Common 1/4" Quick Connect Terminations
- ✓ Support multiple leak detection sensors
- ✓ Open-board with standoffs or plastic-enclosed assembly

### SPECIFICATIONS

#### INPUTS:

- **Working Voltage:** 24 VAC, 50/60 Hz Input (SELV/Class 2)
- **Frequency:** 50/60 Hz

#### OUTPUTS:

- 80mA @ 5VDC per RS-485 port maximum
- **K1: Dry Contact SPST**
  - **NO: CC Output;** Class 2, 100VA (Nominal 2.5A @ 24V)
- **K2: Dry Contact SPDT**
  - **NC:** Fan output; Class 2, 100VA (Nominal 4A @ 24V)
  - **NO:** Alarm signal; Class 2, 100VA (Nominal 4A @ 24V)

#### ENVIRONMENT:

- **Operating Temperature:** -40°C to 70°C
- **Storage Temperature:** -40°C to 85°C (not powered)
- **Relative Humidity:** 0-95% RH
- **Pollution Degree:** 2

#### MECHANICAL:

- **Dimensions:** 2.75" x 4"

#### FUNCTIONAL:

- **Fault Recovery:** Auto
- **%LFL Trip Point:** 14.5%
- **%LFL Recovery Point:** 8%
- **Lockout Time (Anti-Short Cycle):** 300s