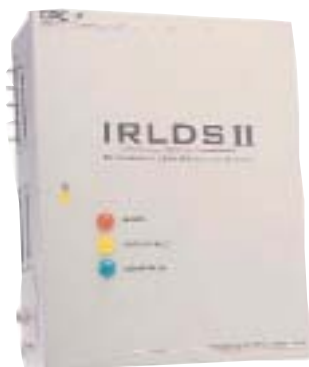# IRLDS II

Infrared Refrigerant Lead Detection System

As refrigerant costs continue to rise and government regulations become increasingly restrictive, employing an effective refrigerant leak detection system is more important than ever. Emerson's IRLDS II continuously monitors from 4 to 16 zones for low levels of the CFC, HCFC, and HFC refrigerants most commonly used in commercial refrigeration systems. With sensitivity as low as 1 ppm and a measuring range of up to 1000 ppm, the system meets or exceeds all specifications of ANSI/BSR and ASHRAE Standard 15. With the ability to interface to the E2 Facility Management System, as part of Emerson's Intelligent Store architecture, a world of monitoring, maintenance, and dispatch capabilities are unveiled. These capabilities safeguard refrigeration systems by notifying you of leaks and potential issues as they occur, enabling immediate response before a small problem becomes critical

Flexibility for all systems

The IRLDS II gas software library allows each point to be independently selected to monitor any of the following gases: R11, R12, R113, R114, R502 HFC: R404a (HP62), R407a, R408a, R407c (AC9000), R134a, R410a (AZ20), R507 (AZ50), R508b (SUVA95) HCFC: R22, R123, R500, R503, R401a (MP39), R402a (HP80), R402b) (HP81), R409a, R23 HALON: 1301.

Benefits

- Multi-zone configuration allows you to monitor multiple refrigerant types with one unit
- Immediate notification sent to E2 if a leak is detected
- Comprehensive solution for multi-zone refrigerant leak detection
- Infrared technology allows virtually all nuisance alarms to be avoided
- Optional display for IRLDS II allows you to install the system in virtually any application
- Easily integrated into existing stores to meet local building codes
- UL & CE recognized

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IRLDS II

Alarm Management

In addition to sending alarms through the E2 Facility Management System, each IRLDS II has four alarm contacts. These may be used to communicate alarm levels, activate horns or equipment, or signal system faults.

Unbeaten Sensitivity

With sensitivity as low as 1 ppm, and detection as high as 1000 ppm, the IRLDS II is the most comprehensive, accurate system offered by Emerson Retail Solutions. If a new refrigerant is created in the future, up to 5 new gases may be added to the onboard library

	Technology	Sensitivity	Response Time	Temperature Range	Part Number
IRLDS II	Infrared	1 ppm	1-15 min	32 - 122 F 0 - 60 C	808-1610
MRLDS	Photo-acoustic	20 ppm	T50 < 4 min	-20 - 150 F -30 - 65 C	XXX-XXXX
Metal Oxide	Solid State	80 ppm	T80 < 5 min	32 - 122 F 0 - 60 C	809-1550

Technical Details

IRLDS II communicates with E2, Einstein, and RMCC platforms via RS-485. A Remote Refrigerant Monitor Interface is also available for systems without a central facility management system. An RS232 port is also standard for either local or modern communication. Special configuration software is available at no additional charge.

Operating temp: 32° - 122°F (0° - 50°C)

Ambient humidity: 5% to 90% (non-condensing)

Size/Weight: 17" x 12" x 5.5" / 15 lbs. May be wall or rack mounted.

Power: 120VAC - 1 Ph-60 Hz; 230VAC - 1 Ph-50 Hz

Certification: UL/CE

Intelligent Store™ Architecture

The Control Link platform is a base component of Emerson's Intelligent Store™ architecture. The architecture creates an integrated suite of products and services that provide retail operators a new level of sophistication and insight into their operations. When integrated or linked together, these innovative products and services can provide maintenance, energy, and reliability gains. Also included in the Intelligent Store are the E2 Facility Management System, Control Link device controller, Intelligent Store Discus® compressor, select Lennox HVAC units, and other third party devices. For more information on Emerson's Intelligent Store, the Control Link platform, or facility monitoring and field services, visit www.EmersonClimate.com/retailers.htm

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