

# MRLDS-550

## Industrial Refrigerant Gas Detector



Emerson's MRLDS-550 (Modular Refrigerant Leak Detection System) continuously monitors indoor or outdoor ambient air for refrigerants, oxygen and toxic and combustible gases. The leak detector is housed in a rugged ABS enclosure. The MRLDS-550 can easily be integrated into any building management system (BMS) or supervisory controls. The Modbus RTU interface allows the user to program and configure the unit remotely through the supervisory controls. Remote access gives complete control to the user when using Modbus via RS485.

### Features and Benefits



#### One or Two Sensor Capability

Detects two gases and/or in two locations with one instrument



#### Remote Sensor Capabilities

Flexible placement in hard to reach areas



#### Analog and Digital Interface

Ease of integration with multiple control devices



#### On-board Relays

Connects to local alarm devices for savings cost and installation



#### Magnetic Wand

Non-intrusive configuration and calibration

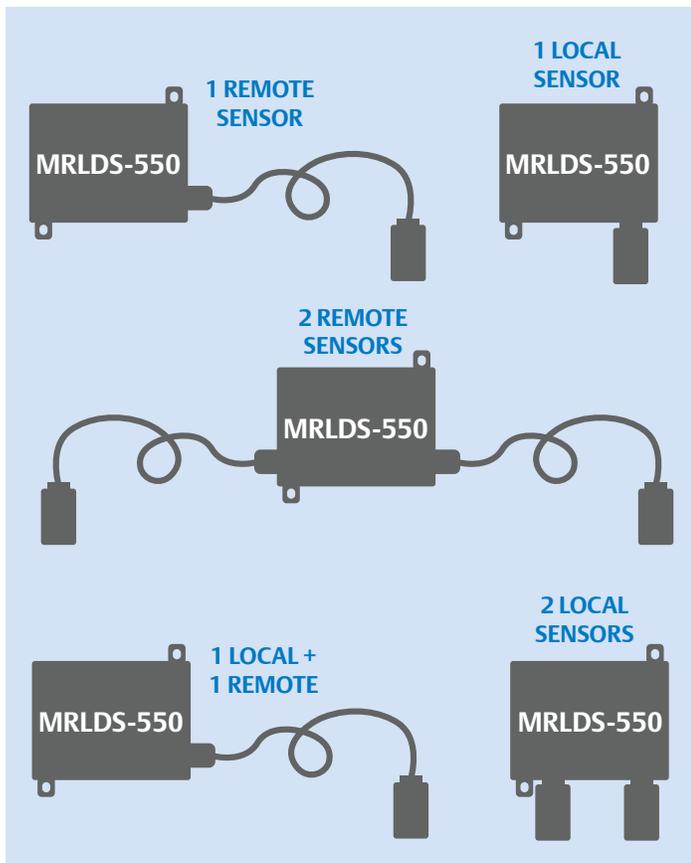


#### Status Indicator and LED Display

Provides at-a-glance status overview and comprehensive direct user interface

Electric current or volt analog output provides an industry standard reading. The straightforward menu structure is identical regardless of the type of sensors used, reducing the costs and amount of time for training required upon installation or during maintenance.

The MRLDS-550 offers the flexibility of adding a second sensor at any point in time without the need for any additional controllers. Any sensor can be remotely mounted from the main instruments up to a distance of 15 feet or 5 meters.



## Specifications

Specification	Description
Power Supply	19.5 to 28.5 VDC or 24 VAC +/- 20%, 3- or 4-wire
Analog Outputs	4 -20mA, 0-5V, 1-5V, 2-10V
Digital Outputs	Modbus RTU via RS 485
Display	Red 5-digit, 7-segmented LED and green status LEDs
Relay	Three relays, SPDT, user assignable Rating 2A @ 30VDC NO, 0.5A @ 125 VDC, 0.25A @ 250VAC, 30W, resistive load
Enclosure	General purpose ABS IP66 with four M20 x 1.5 cable glands
Size (WxHxD) Approx	8.3" x 8.9" x 3.4" 210 x 225 x 85mm
Weight Approx	2 lbs / 1 kg
Approvals	CE, UL / CSA / IEC EN 61010-1
Temperature	-40 to 122F / -40 to 50C
Humidity	5 to 90 % RH, non condensing
Pressure	23.6 to 32.5 inch Hg / 800 to 1.100 mbar

## Order Information

Part #	Description
809-1022	MRDLS-550, CO <sub>2</sub> 50k ppm
809-1023	CO <sub>2</sub> 50k ppm Remote Sensor
809-1024	Remote Sensor Mounting Bracket