

# INDUSTRIAL REFRIGERANT LEAK DETECTOR

*Infrared Technology*  
*Fewer False Alarms*  
*Fast Response Time*



- **Utilizes Infrared Technology for Detection**  
ensures long sensor life and high accuracy
- **Fewer False Alarms**  
use of infrared technology enables response to refrigerants only
- **Fast Response Time**  
responds to leaks in less than 1 second
- **High Sensitivity**  
detects leaks as small as 0.01 oz/yr
- **Internal Leak Source**  
enables calibrations to be made quickly and easily
- **Wide Assortment of Probe Options**  
provides flexibility in your application
- **2 Year Warranty**

## H25-IR Industrial Refrigerant Leak Detector

The H25-IR is an industrial leak detector used for low-level detection and leak rate quantification of CFCs, HFCs, HCFCs, and halogen gas compounds that are used in air conditioning and refrigeration equipment, fire suppression systems, and various other residential, commercial and industrial apparatus. The instrument can be used to locate and quantify leaks as well as log and totalize the entire group of leaks in a system to ensure quality assurance compliance. The unit is capable of detecting 29 of the most commonly used refrigerants and halogen gas compounds. Additional gas-specific models are available for R-600a and SF<sub>6</sub>.



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## SPECIFICATIONS

Gases Measured	<ul style="list-style-type: none"> <li>•CFC, HFC, and HCFC unit: R-11, R-12, R-22, R-23, R-113, R-114, R-123, R-124, R-134a, R-227, R-236fa, R-401A, R-402A, R-402B, R-404A, R-407A, R-407C, R-408A, R-409A, R-410A, R-500, R-502, R-503, R-507, R-508B, H-1211, H-1301, H-2402, N-1230</li> <li>•Gas specific unit for R-600a (isobutane)</li> <li>•Gas specific unit for SF<sub>6</sub> (sulfur hexafluoride)</li> </ul>
Sensor	Infrared
Measurement Units	oz/yr, g/yr, mL/s, PaM <sup>3</sup> /s, ppm
Measurement Range	0.00 - 5.00 oz/yr
Warm-Up Time	2 minutes
Probe and Hose	<ul style="list-style-type: none"> <li>•8" (20.3 cm) and 15" (38.1cm) flexible probes included</li> <li>•6' (1.8 m) hose, 12' (3.6 m), 15' (4.6m), and 18' (5.5m) hoses available</li> </ul>
Operating Modes	Search - detects presence and location of gas leaks Measure - calculates and displays leak rate
Response Time	Less than 1 second (with 6' probe hose)
Sensitivity	0.01 oz/yr
Temperature Drift	±0.8% of reading per °C
Calibration	Internal: calibration performed using the unit's built-in internal leak source External: calibration performed using a customer supplied leak source of known gas type and leak rate
Power	100 to 240 VAC, 50/60 Hz
Power Consumption	15 Watts
Dimensions	4"H x 10.75"W x 15"D (10.2 cm x 27.3 cm x 38.1 cm)
Operating Temperature Range	32 to 122°F (0 to 50°C)
Operating Humidity Range	5 to 90% RH, non condensing
Storage Temperature Range	-4 to 122°F (-20 to 50°C)
Weight	18 lbs. (8.2 kg)
Warranty	Two year full warranty on instrument

## Ordering Information

The H25-IR instrument, along with its probe type and hose length, is ordered by specifying 3 codes. The codes must be listed in the following sequence:

- Code A** Model Name
- Code B** Gas Type
- Code C** Probe Type and Hose Length

For example: To order an H25-IR that detects CFC type refrigerants; a Standard Probe with LED & Button; and a 6 foot hose, you would order an H25IR-1-3

### H25-IR Instrument Probe Type & Hose Length Ordering Information

	CODE	DESCRIPTION
<b>Code A</b>	H25IR	Infrared Gas Leak Dectector
<b>Code B</b>	-1	CFC, HFC, HCFC & Halogen Gases
	-2	R-600a
	-3	SF <sub>6</sub>
<b>Code C</b>	-1	Standard Probe, 6 foot Hose
	-2	Standard Probe, 12 foot Hose
	-3	Standard Probe, LED & Button, 6 foot Hose
	-4	Standard Probe, LED & Button, 12 foot Hose
	-5	Smart Probe, 6 foot Hose
	-6	Smart Probe, 12 foot Hose
	-7	Standard Probe, 15 foot Hose
	-8	Standard Probe, 18 foot Hose
	-9	Standard Probe, LED & Button, 15 foot Hose
	-10	Standard Probe, LED & Button, 18 foot Hose
	-11	Smart Probe, 15 foot Hose
	-12	Smart Probe, 18 foot Hose

## Probes



**Standard Probe**  
Contains no buttons or visual feedback.

Standard Probe



**Standard Probe, LED & Button**  
Contains a button that can be configured to either zero the unit or switch between the instrument's search and measure modes. Also contains an LED that provides visual feedback. The LED can be configured to blink with increasing frequency as the measured leak rate increases or light steadily once a user defined threshold is reached.

Standard Probe LED & Button



**Smart Probe**  
Contains an LCD display that shows the current leak rate. Also contains an LED that can be configured for operation just as with the Standard Probe, LED & Button. The probe also has a keypad that is identical to the one on the H25-IR's front panel, enabling all of the instrument's functions, setups and features to be accessed via the probe.

Smart Probe

Distributed By:

Technical Training for Heating & Cooling



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