

Trace Gas Analyser LCT08

The Leak Detector / Trace Gas Analyzer LCT08 is based on an infra-red absorption technique, which allows selective detection of molecular species with abundancies as small as few PPM (Parts Per Million). This instrument is widely employed in refrigerant gas leak search applications but it can be used for monitoring small concentrations of any environmental gases.



SYSTEM SPECIFICATIONS:

Detectable Gases

Measuring head LS-1	.R134a, R407C
Measuring head LS-2	.R22
Measuring head LS-3	.CO ₂
Measuring head LS-4	.R134a, R404A, R407C, R410A
Measuring head LS-5	.R134a, R404A, R407C, R410A, R22
Measuring head LS-6	.HC (R600a, R290)
Measuring head LS-7	.SF ₆

Operating principle. Infra-red gas cell

Units. g/yr, oz/yr, mBar L/s, Pa M³/s, PPM

Range. 0.0 a 99.9 g/yr

Operating modes.

Continuous: leak measurement

Sequence: leak measurement and storage

Snapshot: detection and location of leak

Response time. < 1 second

Sensitivity. 0.3 g/yr for R134a

Resolution. 0.1 g/yr



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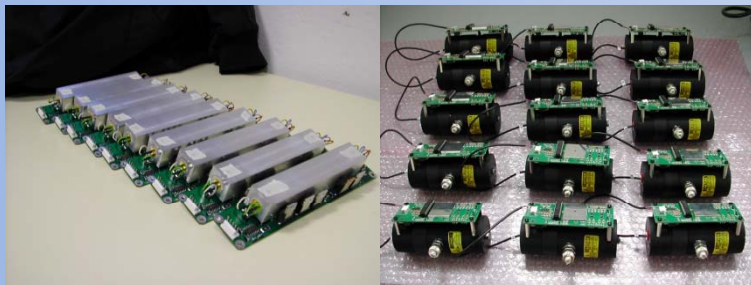
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The system LCT08 is a precision gas leak detector / trace gas analyzer for industrial applications. The state-of-the-art detection method, based on infra-red light absorption, leads to high sensitivity, short response time, reduced ownership costs and long lifetime.

The instrument consists of a main unit (metallic enclosure) equipped with screen and keypad, a flexible cord (stainless steel with non-conductive sheathing) and a plastic handpiece with screen and pushbutton. It is possible to store measurement sequences and to download the corresponding files on a PC via USB. An acoustic alarm (with connection for external speakers) is also present, that helps in leak detection and location. Moreover, since it is possible to include two infra-red cells, a large variety of gases can be detected with the same unit.

The LCT08 leak detector is excellent for any application in mass production of refrigerators and air conditioners, and for installation and maintenance of large industrial plants. It finds also application in trace gas analysis for environmental monitoring. In these fields the LCT08 leak detector allows production of goods with reduced gas emissions, thus contributing to the control of environmental pollution.



Trace gas and micro-dust detection units

SYSTEM SPECIFICATIONS:

- Calibration. Internal: with factory settings
External: with customer supplied calibrated leak
- Audio Alarm. At threshold with leak proportional frequency
Three volume levels
Out Mini Jack 3.5 mm for external speakers
- Flow rate 110÷130 sccm
- AC power. 220 VAC, 50/60 Hz
- Power Consumption. 30 Watts
- Fuse. F2.0AL (250V - 2.0A) x 2
- Warm-up time.6 minutes for initial operation
30 minutes to meet all specs
- Working Temperature. 12°C to 40° C
- Storage Temperature. -20°C to 80° C
- Ambient Humidity. 10% to 80% RH, non-condensing
- Main Screen. White on blue, LCD 240 x128 pixels
- Handpiece Screen. Color, OLED 160 x 128 pixels
- Case Dimensions. 260 x 250 x 120 mm (except adjustable handle bar)
- Cord Length. 2800 mm
- Handpiece Dimensions. 180 x 86 x 45 mm
- Weight. 4 kg

Accessories:

- n. 20 paper filters
- AC Power Cord
- USB Cable
- Software CD
- Operation Manual

-Optional : Battery Operation

-The instrument complies with EN-61010-1 e EN-61326-1 standards.



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