

Refrigerant gas leak measurement

Designed specifically for the detection and measurement of CFC's, HFC's and HCFC's



A sensitive, handheld instrument for the detection and measurement of refrigerant and air-conditioning gases such as:

R12 R134a R600a
R404a R407c R1301

Applications include:

- **Gas Supply**
- **Refrigeration**
- **Automotive**
- **Air Conditioning**

GASCHECK R2pc

Technical Specification

DETECTOR

Composite microprocessor controlled ceramic with low sensitivity to interfering gases such as alcohol

MINIMUM DETECTABLE LEVEL

1.3×10^{-6} ml/sec, 5 ppm, 0.2 gm/yr (R134a)

DETECTS

All CFC, HFC and HCFC gases

OPERATION

Mains: 110 - 240 VAC

Batteries: 4 x AA NiMH

typical 5 hrs life per recharge

NB It is recommended that the instrument is kept on the mains at all times when not in use.

RESPONSE

1 second, with a 5 second clear down*

ALARM LEVEL

15 gm/yr (R134a and equivalent sensitivity gases)

PROBES

Standard 100 mm,

Long 300 mm, Flex and stay

WEIGHT & DIMENSIONS

Instrument with probe

385 mm x 60 mm x 50 mm, 15.2" x 2.4" x 2"

Standard Case

420 mm x 320 mm x 97 mm, 16.5" x 12.5" x 3.8"

Instrument: 0.4 kg or 0.9 lb, Packed: 1.9 kg or 4.2 lb

*Dependent on leak size detected

ION SCIENCE is
ISO9001:2000 certified
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batteries where typical life per recharge is 5 hrs. It is recommended that the instrument is left plugged into the mains power supply at all times when not in use to maintain optimal sensor performance and will ensure that the instrument is ready for immediate use.

To complement the GasCheck R2pc Ion Science has developed an exclusive range of high quality accessories. Please see the accompanying table. For a full list contact a member of our sales team.

GasCheck R2pc is a light weight, handheld leak detector specifically designed for the detection and measurement of refrigerant and air-conditioning gases. At the heart of the instrument is a unique sensing system optimised for refrigerant gas leak detection.

The inboard pump and flow management system enables the instrument's high sensitivity and rapid response to detect the smallest of CFC's and HCFC's leaks – 0.2 gm/yr.

Robust and reliable, the instrument can be switched to display leak rates in gm/yr or ppm. Leak rate measurements are continuously updated allowing the leak to be accurately located and the leak rate exponential measured.

Obtaining a direct leak rate measurement and locating the source is a simple one handed operation. When a leak is registered above the pre-set alarm an audible alarm is sounded, and an LED flashes, leaving the user in no doubt that a leak has been found.

A key benefit of the GasCheck R2pc is that it has a unique compensating circuit, which automatically allows for background levels of CFC's to be subtracted out of the response as well as limiting the effects of environmental changes (temperature and humidity) to ensure that halocarbons are detected. The response characteristics of each gas group are held in memory.

GasCheck R2pc benefits from being able to operate continuously on the mains power supply or via rechargeable



Part No.	Accessories
A-21500	CalCheck with single point calibration standard, filled with a refrigeration or refrigerant gas. Calibrated to UKAS/NIST gas leak standards.
5/BA-12	R134a 5% Vol CalCheck replacement cylinder
A-21045	Standard calibrated leak for refrigerant gases down to 5 gm/yr
31052	Leather instrument jacket



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