

# Accurate gas leak measurement

Rapid readings of even the smallest leaks



GasCheck is much more than a leak detector as it reliably measures helium, hydrogen and other tracer gases.

Applications include:

- **Industrial**
- **Manufacturing**
- **Laboratory**
- **Medical**
- **Research**

GASCHECK

## Technical Specification

### DETECTOR

Micro thermal conductivity detector (TCD)  
Sensor is poison resistant with over range protection

### INTRINSICALLY SAFE APPROVALS

II 2 G EEx ia II T4 Baseefa 02ATEX0093

### OPERATION

Battery Type: 4 x alkaline AA size  
Typically 40 hours life, IS versions 20 hours.

### SENSITIVITY (cc/sec)

He 2x10<sup>-5</sup>, CH<sub>4</sub> 1x10<sup>-4</sup>, R12 1x10<sup>-4</sup>, Ar 2x10<sup>-4</sup>

### ACCURACY

± 5% Displayed reading ± One digit

### RESPONSE

T90 = 1 second rise and clear down

### ALARMS

Flashing LED and 90 dBA (10 cm) audible sounder

### CALIBRATION

Certified NAMAS/NIST standards

### DATA LOGGING\*

36,000 data points with date and time stamp

### FLOW RATE

2 ml/min or 2 cc/min (with outer probe removed)

### TEMPERATURE

Operating: -20 to +60 °C, -4 to 140 °F  
Storage: -20 to +70 °F, -13 to 158 °F  
Humidity: 0 to 99% RH (non-condensing)

### WEIGHT & DIMENSIONS

Instrument with probe  
390 mm x 60 mm x 49 mm, 15.5" x 2.3" x 1.9"  
Case  
420 mm x 320 mm x 97 mm, 16.5" x 12.5" x 3.8"  
Instrument 0.45 kg, 1 lb, Packed 1.6 kg, 3.5 lb

### EMC tested EN50081-1 & EN50082-1 July 98

ION SCIENCE is  
ISO9001:2000 certified  
(December 2003)



\* Data logging available with the  
GasCheck 5000is only

**GasCheck leak detector is capable of detecting almost any known gas or gas mixture. The micro thermal conductivity sensor responds rapidly to a leak helping you to detect even the smallest quantities of escaped gas.**

GasCheck is conveniently calibrated against helium – the most commonly used tracer gas – and is particularly sensitive to ammonia, argon, butane, hydrogen, SF<sub>6</sub> and refrigerants. The instrument range offers intrinsically safe versions for use in areas classified as zone zero flammable and can also safely detect flammable gases.

GasCheck has been designed for easy operation; it is fitted with a large back lit display clearly showing its numerical readout of any detected leak. When the detector is switched on it automatically zeros to the ambient air around it and is ready to detect immediately. Leak detection is made easy thanks to the instrument's loud audible alarm and flashing LED, leaving the user in no doubt that a leak has been detected. Advanced software features allow the user to program the unit to deliver maximum sensitivity, to hold peak readings and to screen out interference from background gases.

## GasCheck 3000

### - The simple, easy to use leak detector

Designed specifically for search and location of non-flammable gases, such as helium and CFC's.

## GasCheck 3000is

### - An intrinsically safe leak detector

3000is is an ATEX approved intrinsically safe version of the 3000 instrument designed specifically for use in flammable areas and for the search and location of flammable gas leaks.



## GasCheck 5000is

### - An advanced leak detector with download capability for easy data analysis

5000is benefits from many advanced features including data logging with a date and time stamp, a choice of readout units ppm or ml/sec, and an adjustable alarm level. 5000is can also download its data logged results to a PC for analysis via an infrared link. The accompanying software allows for the creation of graphs from the downloaded data and printed reports.

## Accessories

To complement the GasCheck range Ion Science has developed an exclusive range of high quality accessories.



Part No.	Accessories
A-28170	<b>IR Link for GasCheck 5000is</b> - Infrared link and computer software for downloading data including mains adapter
A-21500	CalCheck with single point calibration standard. Calibrated to UKAS/NIST gas leak standards.
31052	Leather instrument jacket
31163	Luxury carry case includes space for Cal kit and IR link