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# GASCHECK TESLA

HELIUM LEAK TESTER



HANDHELD HELIUM LEAK DETECTOR FOR  
MRI SCANNER MAINTENANCE.

[ionscience.com](http://ionscience.com)

Unrivalled Gas Detection.





**ONLY HANDHELD HELIUM LEAK  
DETECTOR AVAILABLE TO OPERATE IN  
A HIGH MAGNETIC FIELD, DETECTING  
LEAKS AT ULTRA-LOW LEVELS.**

## Best available helium leak detection

- Operates effectively within a magnetic field
- Detects the smallest of leaks down to ultra-low levels
- Small internal flow rate provides maximum sensitivity
- Fast, accurate leak detection
- Reliable, stable, repeatable readings
- Choice of readings in cc/sec, g/yr, mg/m<sup>3</sup>

## Cost saving

- Rapidly detects liquid helium leaks minimising downtime
- Low cost alternative to expensive mass spectrometers
- Inexpensive consumables and parts
- 2 year warranty when instrument registered online

## Ease of use

- Simple, one handed operation
  - Probe designed to get into the smallest of places
  - Large, clear LCD back lit display for easy viewing of results
  - Easy to use graphical icon menu
- GasCheck Tesla is a highly sensitive helium leak detector designed for effective use within high magnetic fields found around the outside of Magnetic Resonance Imaging (MRI) scanners. The instrument's advanced micro thermal conductivity sensor provides rapid, accurate measurement of helium leaks down to ultra-low levels.

The instrument can be used on an MRI scanner whilst in operation, meaning interruptions to the machinery are avoided. Helium leaks are found quickly reducing cost, wastage and downtime of the machinery.





GasCheck Tesla provides a highly effective, low cost, easy to use alternative to expensive and cumbersome mass spectrometers. As well as being costly, mass spectrometers must be located outside the magnetic field and use long leak testing probes.

GasCheck Tesla provides stable, repeatable readings. The instrument's LCD display, LED indicator and audible sounder clearly indicate the helium leaks present. GasCheck Tesla automatically zeros to the ambient air around it when switched on, and is ready to detect immediately. The instrument's easy to use graphical interface and intuitive keypad allows simple function, selection and adjustment.

Handheld and portable, GasCheck Tesla provides simple one handed operation. The probe is designed to get into the smallest of places

and is typically moved along a joint or weld seam a few centimetres per second, enabling fast detection of all possible leak paths.

GasCheck Tesla is an advancement of the existing GasCheck G leak detector. GasCheck G is capable of detecting almost any gas or gas mixture, and is particularly sensitive to ammonia, argon, butane, helium, hydrogen and SF6.

GasCheck G is available in three distinct versions; G1, G2 and G3 with varied capabilities and can be upgraded quickly and easily without being returned to the factory.

Also available is the Intrinsically Safe GasCheck IS, the only ATEX approved leak detector for the detection of flammable gases.

### **Extend your instrument warranty**

The GasCheck Tesla instrument warranty may be extended by simply registering your product on the Ion Science website within one month of purchase. Visit [www.ionscience.com/instrument-registration](http://www.ionscience.com/instrument-registration) to take advantage of this offer.

### **Accessories**

GasCheck Tesla is supplied with an exclusive range of accessories. Visit [www.ionscience.com/tesla](http://www.ionscience.com/tesla) for more info.



## Technical specifications

### DETECTOR

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

### OPERATION

- Battery Type: 4 x alkaline AA size or NiMH (rechargeable)
- Typically 40 hours life

### SENSITIVITY (cc/sec)

- He  $1 \times 10^{-5}$

### ACCURACY

- - 5% Displayed reading
- One digit

### RESPONSE

- T90 = 1 second rise and clear down

### SOUND

- Flashing LED and 90 dBA (at 10 cm) audible sounder

### CALIBRATION

- Factory calibrated to fully documented procedures in accordance with
- our ISO 9001:2008 Quality Management System

### TEMPERATURE

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

### FLOW RATE

- 2 cc/min

### WEIGHT & DIMENSIONS

- Instrument with probe: 390 x 60 x 49 mm, 15.5 x 2.3 x 1.9"
- Case: 420 x 320 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.

Tesla V1.1. This publication is not intended to form the basis of a contract and specifications can change without notice.

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