



GasCheck Tesla

Handheld helium leak detector for MRI scanner maintenance.



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/m³

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 to take advantage of this offer.

Accessories

GasCheck Tesla is supplied with an exclusive range of accessories. Visit www.ionscience.com/tesla for more info.

Distributed by:

TECHNICAL SPECIFICATION

DETECTOR

Micro thermal conductivity detector (MTCO)
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 1×10^{-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.

Ion Science recommends

CalCheck, an easy to use reliable tool for the self calibration of the range of Ion Science GasCheck instruments. For more information visit www.ionscience.com



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