



REPSS, Inc.
Instrumentation Specialists

GASCHECK G

GAS LEAK DETECTOR

Best Available Leak Detection

- Fast, accurate leak detection at highly sensitive levels
- Detects almost any known gas or gas mixture
- Particularly sensitive to ammonia, argon, butane, helium, hydrogen and SF6
- Reliable, stable, repeatable readings

Ease of Use

- Simple, one handed operation
- Large, clear LCD back lit display for easy viewing
- Graphical icon menu
- Conveniently calibrated against helium



Flexibility

- Choice of readings in cc/sec, g/yr, mg/m3
- Easily upgradeable throughout the range

Low Cost Operation

- Inexpensive consumables and parts
- 2 year warranty when instrument registered online



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Unrivaled Gas Detection

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V2.2
Issue 2018



GASCHECK G RAPIDLY AND ACCURATELY DETECTS ALMOST ANY GAS OR GAS MIXTURE DOWN TO HIGHLY SENSITIVE LEVELS.

Designed for the search and location of gas leaks, GasCheck G has an advanced micro thermal conductivity sensor for fast, effective detection of almost any gas or gas mixture.

Robust and reliable, GasCheck G provides stable, repeatable readings of the detected gas. The instrument's LCD display, LED indicator and audible sounder clearly indicate the leak present.

GasCheck G 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.

Upgradeable throughout the range, GasCheck G is available in three distinct versions; G1, G2 and G3 with varied capabilities. Features can be easily added to upgrade the instrument without it having to be returned to the factory.

Extend your instrument warranty

Your GasCheck G 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.

Applications include

- Industrial
- Quality Assurance
- Manufacturing
- Laboratory
- Medical
- Research

Summary of Gascheck Features	G1	G2	G3	Tesla
Rapid Qualitative Leak Detection	✓	✓	✓	✓
Gas Quantification Factors	0	1	20	20
Audible Alarms & Flashing Backlit Display	✓	✓	✓	✓
Peak Hold Readings		✓	✓	✓
User Calibration Available		✓	✓	✓
Data Logging Time Points	0	0	10	10
Unit Options of cc/sec, g/yr, ppm or mg/m ³			✓	✓
Selectable Battery Type			✓	✓
Upgradeable	✓	✓		
Resistance to Strong Magnetic Fields				✓



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GASCHECK TESLA

GAS LEAK DETECTOR



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 minimizing 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.



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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 centimeters 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.

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.

Summary of Gascheck Features	G1	G2	G3	Tesla
Rapid Qualitative Leak Detection	✓	✓	✓	✓
Gas Quantification Factors	0	1	20	20
Audible Alarms & Flashing Backlit Display	✓	✓	✓	✓
Peak Hold Readings		✓	✓	✓
User Calibration Available		✓	✓	✓
Data Logging Time Points	0	0	10	10
Unit Options of cc/sec, g/yr, ppm or mg/m ³			✓	✓
Selectable Battery Type			✓	✓
Upgradeable	✓	✓		
Resistance to Strong Magnetic Fields				✓



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 x 10⁻⁵, CH₄ 5 x 10⁻⁵, R12 5 x 10⁻⁵, Ar 1 x 10⁻⁴

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

DATA LOGGING

- 10 data points (available for G3 only.)

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

Included in all Gascheck Kits

- Gascheck Instrument
- Battery Holder
- Long Probe Assembly
- Drilled Box Spanner
- Standard Universal Case
- Printed Quick Start Guide



Gascheck	Description
GG1SAXXS-X	GasCheck G1
GG2SAXXS-X	GasCheck G2
GG3SAXXS-X	GasCheck G3
GGMSAXXS-X	GasCheck Tesla

Gascheck Access.	Description
08024CPC8	Nozzle Std Grey
1/BH-01	Battery Holder
A-08029	Drilled Box Spanner
A-08043	Short Probe Assembly
A-08045	Long Probe Assembly
A-21500	CalCheck Helium

Upgrade Options	Description
GGUP1-2	Software Upgrade of a GasCheck G1 to G2
GGUP1-3	Software Upgrade of a GasCheck G1 to G3
GGUP2-3	Software Upgrade of a GasCheck G2 to G3

Features

- Fast, accurate leak detection
- Audible alarm and LED bar graph display
- automatic compensation to ambient conditions
- Sensitivity of 1x10⁻⁶ mbar l/s
- Operating temperature -20 to +60° C
- Auto shift function

The SF6 GasCheck 6000 is a low cost, easy to use, portable detector for the fast detection of SF6 leaks with automatic range shifting. It is supplied in a transport case with a 385mm Flexible Probe with a protective cap and water vapor filter, supplied with a multilingual User Manual.

SF6 GC6000 Instrument	Description
SF6000	GasCheck 6000 Handheld Leak Detector

SF6 GC6000 Access.	Description
SF6000-SENS	Replacement Sensor for GasCheck 6000 Leak Detector



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CALCHECKS & STANDARD LEAKS

Calibrators for Gas Leak Detectors



Gas leak detectors use standard calibrated leak (SCL) fittings for easy and reliable calibration. Gases include H₂, He, SF₆, Refrigerants, and any other non-corrosive gas. Standard systems give leaks of 5 x 10⁻⁴ cc/sec, but can be lowered to 5 x 10⁻⁸ cc/sec using lower concentration gas cylinders. SCL's are also sold separately to build into your own calibration system.

Calchecks	Description
A-21500	Cal Check Helium
A-21520	Cal Check SF ₆
A-21521	Cal Check Refrigerant
A-21522	Cal Check 5% Hydrogen / 95% Nitrogen

Calcheck Canisters	Description
5/BA-09	Cal Check Canister Helium
5/BA-30	Cal Check Canister 10% Helium (Balance Air)
5/BA-15	Cal Check Canister 0.01% SF ₆
5/BA-10	Cal Check Canister 0.1% SF ₆
5/BA-11	Cal Check Canister 1.0% SF ₆
5/BA-12	Cal Check Canister 5% 134a
5/BA-14	Cal Check Canister 5% R404a
5/BA-18	Cal Check Canister 5% R410
5/BA-21	Cal Check Canister 5% H ₂ (Balance Nitrogen)
5/BA-26	Cal Check Canister 1% FM-200 (Balance Air)
5/BA-31	Cal Check Canister 5% R22 (Balance Air)

Quality leaks produced to your precise pressure and flow requirements with exceptional long term stability. Ion Science calibrated leaks are produced in order for a known leak to be presented to a test system. Should the leak be detected by your gas / leak detector at the correct value then the system is within calibration, giving you confidence in the accuracy of the instruments upon which you depend.



Features

- Calibrated using equipment traceable to National Standards
- Supplied in storage case with certificate of calibration
- Produced under ISO9001:2000 standards
- Made from stainless steel
- Corrosion and contamination resistant

Standard Leaks	Description
A-21045	Standard Leak Helium
A-21046	Standard Leak SF ₆
A-21048	Standard Leak Refrigerant
A-21049	Standard Leak Air
A-21059	Standard Leak 5% Hydrogen / 95% Nitrogen

Std Leak Calibration & Repair	Description
CAL SCL	Service & Calibration of Standard Cal Leaks



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