

# GASCHECK G3 GAS LEAK DETECTOR

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## GasCheck G3 Advanced gas leak detector with improved sensitivity.

Developed from the popular GasCheck 3000, the new model G3 features an improved Micro Thermal Conductivity sensor for enhanced sensitivity. At the heart of instrument is a sensor which can detect any gas with a different thermal conductivity to that of air. Leaks can be located and the gas leak rate can be displayed in a choice of convenient units.

Where several measurements are to be taken, the G3 can log 10 readings with a date and time stamp. The battery powered instrument is supplied in a rugged carrying case with a short probe, nozzle and a long probe.



### Features and benefits

- Detect leaks with automatic and direct display of gas leak rate.
- New, simple, intuitive and easy to interpret graphical icon display menu
- Choice of readings in cc/sec, mg/m<sup>3</sup>h<sup>-1</sup> or ppm
- Rapidly detects almost any known gas – particularly sensitive to ammonia, argon, butane, helium
- Data-logging facility – 10 data points with date and time stamp
- Rugged and portable – back-lit display for improved visibility in restricted light levels - typical battery life 40 hours

### Typical applications

- Leak detection of welds, joints, seams and gaskets on components that are pressurised with a traceable gas such as helium or carbon dioxide
- Leak testing refrigeration plants
- Leak check on cylinders and aerosols
- Used in mass spectrometry and gas chromatography

Technical data

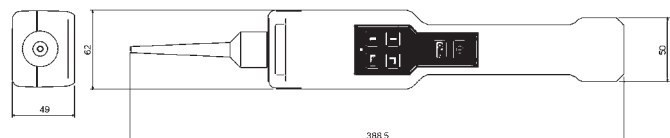
Detector	Micro thermal conductivity detector - poison resistant with over-range protection
Operation	Battery type 4 x alkaline AA size or NiMH (rechargeable), typically 40 hours life
Response time	
Detection time to T90	1 sec (short probe), 9 sec (long probe)
Clear down time	1 sec (short probe), 9 sec (long probe)
Accuracy	+/- 5% displayed reading one digit
Indication	Flashing LED and audible sounder
Data logging	10 data points with date and time stamp
Calibration	Calibrated to UKAS/NIST standards
Operating range	0 to 60 °C
Humidity	0 to 99% RH (non-condensing)
Dimensions	
Case	420 x 320 x 97 mm, 1.6 kg
Instrument with probe	390 x 60 x 49 mm, 0.45 kg
Ingress ratings (min)	IP20

Smallest detectable leak levels

Name	Abbreviation	Minimum sensitivity cc/sec
Hydrogen	H <sub>2</sub>	7.7 E-6 cc/sec
Helium	He	1.0 E-5 cc/sec
Refrigerant R12	R12	2.7 E-5 cc/sec
Refrigerant R1301	R1301	2.4 E-5 cc/sec
Refrigerant R134a	R134a	5.8 E-5 cc/sec
Refrigerant R22	R22	2.6 E-5 cc/sec
Refrigerant R11	R11	3.2 E-5 cc/sec
Sulphur Hexafluoride	SF <sub>6</sub>	2.2 E-5 cc/sec
Carbon dioxide	CO <sub>2</sub>	4.0 E-5 cc/sec
Methane	CH <sub>4</sub>	2.9 E-5 cc/sec
Argon	Ar	3.5 E-5 cc/sec
Oxygen	O <sub>2</sub>	2.9 E-4 cc/sec
Refrigerant R502	R502	3.0 E-5 cc/sec
Refrigerant R404a	R404a	3.2 E-5 cc/sec
Refrigerant R407c	R407c	3.3 E-5 cc/sec
Refrigerant R410a	R410a	3.2 E-5 cc/sec
Refrigerant R507	R507	3.8 E-5 cc/sec

Ordering information

Product description	Order No.
GasCheck G3 leak detector Supplied in carrying case with short probe, long probe, nozzle, box-spanner and spare battery holder	D14132000
Accessories and spares	
Short probe for GasCheck G3	D14128801
Long probe for GasCheck G3	D14128802
Nozzle Use with short probe – provides 10-fold dilution of gas stream entering the detector	D14130800
Spare battery holder	D14130802



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