

TURNKEY

portable brake tester

g-meter+

with pc software & optional printer

- Measures and prints brake efficiency
- VOSA approved for mot testing
- Approved for class iii, iv, v, vi and vii vehicles
- Portable and easy to use stores up to 3 tests at a time



Distributed by:-

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g-meter⁺

with pc software & optional printer



The **g-meter⁺** is designed for statutory annual MOT brake performance testing of class III, IV, V, VI & VII vehicles in accordance with the Motor (Tests) Regulations 1981, as amended. It can also be used for statutory MOT brake performance testing of Heavy Goods Vehicles in accordance with the Goods Vehicles (Plating and Testing) Regulations 1988, as amended.

The test reading is shown on a bright LED display as **Brake Efficiency** in percent or the deceleration in metres per second per second.

The electronic deceleration sensor used in **g-meter⁺** gives it a number of advantages over older electronic devices and mechanical pendulums, namely:

- It is self-aligning and will automatically sense the direction of travel. Precise alignment of the instrument with the direction is, therefore, not necessary.
- Its memory can record 3 sets of test results; for example, for main, secondary and parking brake tests. These are retained even if the instrument is switched off.
- It has an internal clock to accurately record the time and date of each test.
- It measures the peak deceleration, mean deceleration and stopping time and then calculates speed and stopping distance.
- It determines any left-right pull sensed during the brake test.

Specification

Sensing principle	Multi-axis electronic decelerometer 0 to 2.0g
Measurement range	$g=9.81$ metre/sec/sec
Accuracy	Better than $\pm 3\%g$
LED Resolution	1%g 0.1 metre/sec/sec
Display	2 digit, 7 segment LED Readable in sunlight
Peak reading time constant	0.2 seconds
Start window	0.5 seconds
Brake threshold	10%g
Tilt compensation	2.5 degrees per g
Battery	9V PP3 alkaline MN1604 or 6LR61 CR2032 Lithium cell
Interface	RS232C
Printer	Turnkey AP1300
Memory	3 tests
Size	122mm octagon
Weight	300 grams
Calibration	Multipoint calibration, UKAS traceable

Sample printout

g-meter⁺

Test 1 done at: 08:56 23-Sep-05

Peak Decel: 93.7 %g

Mean Decel: 66.4 %g

Test Speed: 28 km/h

Stop Time: 1.22 secs

Distance: 4.8 mtrs

Vehicle Reg: _____

Examiner: _____

Signature: _____

g-meter Serial No. 8091

Recalibrate before 22-Aug-07

www.turnkey-instruments.com

- ← Test Number - Time & Date
- ← Peak Brake Performance
- ← Mean Brake Performance
- ← Measured Speed at braking
- ← Measured time to stop
- ← Measured Stopping distance
- ← Area to enter vehicle registration
- ← Area for examiners name
- ← Area for examiners signature
- ← re-calibration due-date



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Issue 3, October 2005

Changes may be made without notice. E. & O.E.

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