



Turnkey Instruments Ltd
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g-meter

TUV Approved

g-meter+

With PC Software & Optional Printer

- **Designed for MOT testing**
- **Portable and easy to use**
- **Suitable for all cars, HGVs and PSVs**
- **Automatically senses direction of travel**
- **Approved for all classes including class 1 & 2**

The **g-meter+** is designed for statutory annual MOT brake performance testing of class I, II, 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.

Peak Decel: 89.4 %g
 Mean Decel: 71.7 %g
 Test Speed: 25 kph
 Stop Time: 1.02 secs
 Distance: 3.6 mtrs
 Pulled left by 5 degrees
 equivalent to 6.1 %g
 Vehicle Reg
 Examiner

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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.



g-meter+ Features

Specification

Sensing principle	Multi-axis electronic decelerometer
Measurement range	0 to 2.0g 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
Battery life	PP3: 20 hours approx CR2032: 10 years
Interface	RS232C
Printer	Turnkey AP1300
Memory	3 tests
Size	122mm octagon 24mm deep
Weight	300 grams
Calibration	Multipoint calibration, UKAS traceable