

Turnkey Instruments Ltd

g-meter+

Quick Reference Guide

SWITCHING ON

Press and release the large yellow button. The display will show **--** while the instrument does a self-check and recovers its settings from memory. Any error conditions will cause E1, E2 or E3 to flash on the display, consult the factory if this happens.

If the printer is connected at switch-on, a summary of the instrument settings and status will be printed.

LOW BATTERY

The display will flash ***Lo*** if the battery is exhausted.

Do not use the instrument for statutory testing if the *Lo* warning is on.

CALIBRATION

The display will flash **cd** when **c**alibration is **d**ue.

Do not use the instrument for statutory testing if the cd warning is on.

TEST RESULTS

The **g-meter+** stores the results of the last 3 brake tests. Except when armed for a new test, the display always shows the last test results. Press and release the button to select Test 1, 2 or 3 as indicated by the numbered LED. These could represent main, secondary and parking brake tests. Results are cleared if the battery or settings are changed. Brake test results can be displayed on the LED as either peak or mean deceleration and in units of either % g or metres/sec/sec (g=9.81metres/sec/sec). A % g reading is shown with no decimal point, metres/sec/sec with a decimal point.

Use the **g-meterPC** program to set up the instrument to your requirements.

PRINTING

Connect the *Turnkey AP1300* printer; making sure the jack is pushed in properly. Double-Click the button to print the results of the selected test. The printer will switch-on and off automatically.

The g-meter+ instruction booklet with more information is on the CD supplied with the instrument.

Turnkey Instruments Ltd

g-meter+

Quick Reference Guide

BRAKE TESTING

When carrying out a statutory MOT test, the brake test procedure detailed in the latest version of the relevant MOT Inspection Manual must be followed. For your convenience, this is reproduced in the g-meter+ instruction booklet.

Position the **g-meter+** in a convenient location in the vehicle with the direction of travel arrow pointing roughly in the forward direction. The instrument must be placed as parallel as possible to the road surface, and located so that it cannot move under hard braking.
The instrument is self-aligning, providing its **direction of travel arrow** roughly coincides with the actual direction of travel (within say ±60 degrees) no significant error will be introduced.

Press and release the button to select Test 1, 2, or 3, then press and hold the button to arm for a new test. The previous results for this number will be over-written only if the new test is completed. When **oo** appears on the display release the button; after a sort pause, the instrument will determine its tilt within the vehicle and complete its arming. The display indicates **go** when it is ready to proceed. Do not move-off or disturb the instrument until **go** is displayed. To cancel the test, press the button again and the previous results will be retained.

The vehicle can now be accelerated to speed and the brake test carried out. The **g-meter+** will automatically sense the beginning and end of the deceleration and afterwards retain the results in its memory. During acceleration the display will indicate **Ac**, and when stopping it indicates **St**.

SWITCHING OFF

The **g-meter+** will automatically switch itself off if the button is not pressed for more than 4 minutes. It **will not** switch off while it is armed ready for a brake test. Double-Double-Click the button to switch-off manually, but disconnect the printer first.

Please refer to the **TintMan Operating Instructions** for more detailed information about using and configuring this instrument.

www.turnkey.tel

© 2009, Turnkey Instruments Ltd. Issue 6, December 2009.