



## **micro BrakeSafe** Portable Brake Tester

- **Measures and prints Mean Fully Developed Deceleration (MFDD)**
- **Auto-aligns with direction of travel**
- **Pass and fail warning lights**
- **Measures in-line deceleration and sideways pull**
- **Suitable for all cars, HGVs and PSVs**



**micro BrakeSafe** is easy to use and can be located anywhere in the vehicle. It is self levelling and will automatically align itself with the direction of travel. For basic operation, no connections need to be made to the vehicle. Optionally, the instrument can be used to measure and record the force applied to the brake pedal, in this case a transducer is attached to the pedal. This also allows the delay time of the braking system to be determined.

To meet the latest EU and United Nations *World Forum for Harmonization of Vehicle Regulations*, **micro BrakeSafe** directly records the Mean Fully Developed Deceleration. This is the mean deceleration recorded between 80% and 10% of the test speed.

All tests are annotated with the time and date, vehicle identity, test conditions and type of brake tested. The instrument can be pre-loaded with 99 vehicle names,

- **SD memory card to save results for transfer to PC**
- **Self contained, portable and easy to use**
- **VOSA approved**





70 trailers, 16 test conditions, 4 brake types and 8 examiner names. Each name can also be edited via the instrument's single click control.

**micro BrakeSafe** has bright sunlight readable Pass and Fail lights which correspond to user defined pass thresholds. Individual thresholds can be set for each of the four brake types.

The backlit graphical display allows the user to review the deceleration, speed, and distance versus time graphs without printing.

**micro BrakeSafe** can also be used to measure and record the acceleration profile of the vehicle and produce a graph of how it accelerates, and the time taken to reach a given speed.

There is also an HGV trailer testing mode that may be used to determine HGV trailer brake efficiency.

**micro BrakeSafe** has a multipoint UKAS accredited calibration and is CE marked and RoHs compliant.

**micro BrakeSafe** is designed, developed and manufactured by Turnkey. As such, we can provide the best after sales and technical support to our customers. Its design has evolved over many years in response to customer feedback and, as a result, we believe **micro BrakeSafe** is simply the best brake tester available today, anywhere.

[www.brakesafe.eu](http://www.brakesafe.eu)

Turnkey® is a trademark registered with the EU, USA and WTO.



## micro BrakeSafe Features

### Standard Features

<b>Range</b>	140% g
<b>Accuracy</b>	Better than $\pm 2\%$ g
<b>Display</b>	Graphical LCD, 128 x 64 pixels. Backlight.
<b>Memory</b>	4Mb internal 2GB SD Card
<b>Battery</b>	3.6v NiMH rechargeable 12 hr operation
<b>Size</b>	150 x 105 x 50 mm
<b>Weight</b>	550g
<b>Case</b>	IP65 when closed. Karabiner to attach to belt loop.

### Optional Features

<b>PC-Link</b>	To download results and upload vehicle names etc. connects to USB port
<b>Force Sensor</b>	Measures force applied to brake pedal
<b>Bluetooth</b>	Wireless connectivity
<b>Brake for Windows</b>	Test results database program

*The pass and fail warning lights should not be used as part of the MOT test.*

*Product development is continuous and Turnkey Instruments reserves the right to make alterations to specification and manufacture without notice.*

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