Universal acceleration and deceleration measuring instrument for vehicles

The equipment is suitable for inspection and evaluation of vehicles, slow vehicles, trailers brake system and retarder with deceleration measurement. The computer software connection ensures evaluation, storage and printout of the measured data. The instrument can be easily attached to the windshield of the vehicle and charged through the cigarette lighter socket. It is suitable for diagnostic purposes and for periodical technical inspection of vehicles.

- OLED screen and keypad
- Built-in Ni-MH batteries
- 3 way adjustable suction-cup mounting
- Internal memory
- WiFi or USB based connection to the PC
- Windows based evaluation software, built-in database with limit values

Measurement possibilities
- Calculation and evaluation of MFDD – Mean Fully Developed Deceleration
- Retarder inspection and evaluation
- General purpose deceleration or acceleration measurements
- Brake delay time measurement

Optional accessories
- GPS receiver unit
- Auxiliary equipment for deceleration measurement of trailers (E-SM TRAILER)

Requirements for the installation
- Clean, smooth surface for the suction cap attachment
- Selection of a road, which is suitable to perform the measurement
Standard accessories

- Measuring instrument with built-in battery
- USB cable
- Cable for 12V DC cigarette lighter connector
- Carrying case
- Software DVD
- User guide

Basic model

- Single measuring channel for acceleration / deceleration measurement

Extended model

- Basic model with additional module (E-SM BOX-2). Plus two measuring channels (measurement of deceleration taken as a function of pedal force or air brake pressure)
- Pedal force meter
- Air brake pressure meter for trailers

Ultimate model

- Basic model with additional module (E-MS BOX-4). Plus 4 measuring channels (measurement of deceleration taken as a function of pedal force or air brake pressure)
- Pedal force meter
- Air brake pressure meter for trailers
- Auxiliary cell- and analogue signal inputs

Technical data

Number of stored measurements: 10 x 90 sec
Sampling frequency: 200 Hz
Measuring range
- deceleration: ± 20 m/s²
- pedal force meter: 0 – 1000 N
- air brake pressure sensor: 0 – 10 bar
Accuracy of deceleration measurement: ± 0,1 m/s²
Battery: 3,6 V / 880 mAh
Display: 128 x 64 pixeles OLED
Computer interface: WiFi, USB

Calibration is possible by accredited laboratories.

Made in Hungary

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