

# PEGASEM P2000

## Vehicle Performance Tester



The PEGASEM P2000 is a newly designed Data Acquisition unit for acceleration and deceleration tests. It covers many tests mandatory for development, improvement and registration of vehicles, brakes, tires and accessory parts. Together with our 5<sup>th</sup>-wheel, temperature and pressure sensors the P2000 is also an excellent choice when ECE-R13 and ECE-R90 tests are to be carried out. A 32-bit processor gives the unit enough performance for online graphic plots by the built-in thermal printer.

### Features

- Built-in Printer with text and graphic output
- High Storage Capacity for Test Data
- Serial Interface for notebooks/ laptops
- Easy to handle and operate
- Robust Design for harsh environments
- Very compact design
- Wide temperature range
- Delivered in a special Carrying Case

### Applications

- Speed Measurement
- Acceleration Tests
- Brake Tests
- Stopping Distance Tests
- Tire Tests
- Vehicle Development
- Vehicle and Component Registration

### Operating Modes:

#### Acceleration Test

Elapsed time and distance travelled from zero to a selected speed value or within a speed window is measured. (Flexibility Test)



#### Deceleration and Stopping Distance

Brake test with documentation of initial speed, stopping distance, stopping time and Mean Fully Developed Deceleration, MFDD. Includes time, distance and deceleration values within a selectable speed window.

#### Combined Acceleration and Deceleration Test

After measured acceleration and reaching a predefined speed a brake test can be added immediately during the same test run.

#### Fading test

A number of repetitive break tests has to be performed within a given time frame. The P2000 can be programmed to different test sequences. This enables the unit to be easily adapted to future test frames.

#### Speed Sensor Calibration

The high resolution measurement mode of the P2000 enables the use of many kinds of speed sensors with pulse output and a minimum of 10 pulses per meter, e.g. 5<sup>th</sup>-wheels, microwave and optical sensors. Driving along a test track of known length can be used to automatically calibrate the speed/distance sensor.

#### Device Setup

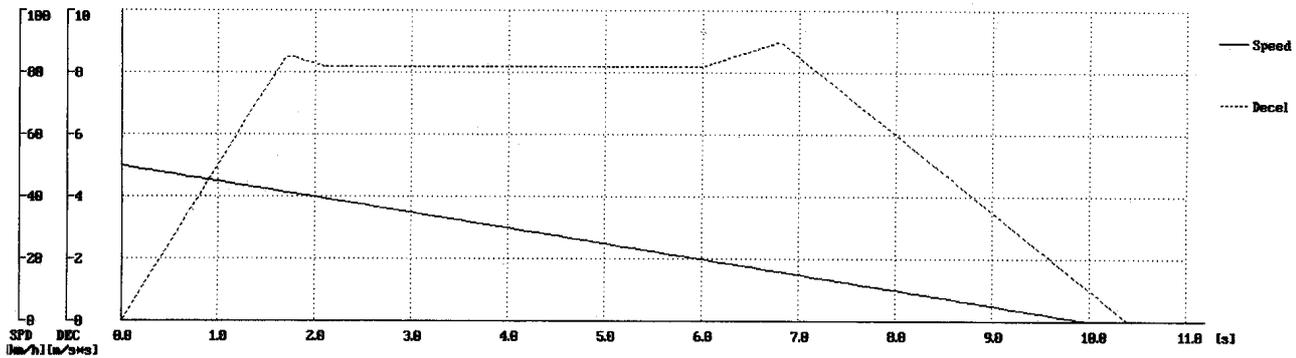
Parameters and measuring sequence can be either programmed locally via the P2000 front keys or remotely via PC.

All data acquired during testing modes are stored on a solid disk for later documentation. Data also can be output simultaneously as traces and/or tabular listing on the local printer for immediate decision if the test was passed or not.

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### Printing Sample:



### Technical Data:

Parameter	Value
Power Supply Voltage	12 ... 24VDC (nominal)
Power Supply Current	0,5A @ 12 V (mean value)
Display Type and Color	VFD, green/blue digits
Operating Temperature Range	- 40° ... +60° C
Number of Digits	20 digits, 9mm height
Digital pulse input	1 counter channel for speed and distance
Analog inputs	brake temperature, pedal force, hydraulic pressure
Package	Aluminum die cast, black powder coated
Size (L x W x H)	110x170x60 mm
Weight	0.8 kg

### Options:

The P2000 is a versatile instrument that can be customised to many individual requirements. Please contact factory for additional features.

Intelligent Test Solutions



Administration

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