DB-Print

Data acquisition and evaluation

The measuring system DB-Print is used for general acceleration and deceleration tests in the automotive industry. It enables the so-called "one-man-test" during complete braking cycles with the help of acoustic signals.

As a data acquisition and analysis system it is used to record the measuring data on the test track.
Using the software DBSSI, the data can be interpreted immediately. The software controls the device via an RS232 interface, reads the measured values and stores them on a connected notebook.
The system is used with either a Peiseler wheel or with non-contact measuring sensors.

Features

- compact design, short set-up time
- integrated display, integrated printer
- presentation of the complete measuring process
- acquisition of the precise measurement time point via integrated real-time clock
- readout of 3 measured variables on the display
- documentation of the measuring process on SD-Card at a rate of 0.05 sec

Application

The DB-Print can be operated in four different measuring modes. The documented data can be output in v.t.s steps directly via printer, or easily processed on a PC or notebook using the provided software DBSSI WIN.

Acceleration test

The acceleration test provides the following data:

- speed at the beginning and end of the measurement
- travelled distance
- duration of the test
- average speed (calculated according to v/t)
- speed points of before/during/after measuring windows
- values of time, distance and accleration of before/during/after measuring windows

Deceleration test

The deceleration test can be started and stopped manually and directly on the unit or automatically via an external signal.
At the end of the measurement the followign data is provided:

- speed at beginning and end of the braking process
- travelled distance
- duration of the test
- average deceleration calculated according to $v^2/2s$

Combined test

The combined test allows the execution of an acceleration and a deceleration test in one single run.
The driver is supported and guided by acoustic signals during the entire test.
At the end of the measurement run, the results of acceleration and braking are available in the same format as for the individual measurements.

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Series of braking

Series braking is used to automatically record the individual results of a closely linked sequence of braking processes (ECE-R13).
The device automatically registers the driver's actions and uses acoustic signals to guide him through the test run. The driver receives acoustic feedback for immediate evaluation directly after each individual braking process.

Calibration mode

The calibration mode provides the means to determine the exact calibration factor used by the pulse transducer.
The calibration factor is determined automatically, stored in the device, and is available for subsequent measurements.

Setup mode

In setup mode, all variables for the following measurement can be set directly on the device. They remain stored even after DB-Print is switched off.

Remote control

The DB-Print is equipped with an RS232 interface that can be used to control the device with ASCII-commands and to access the data readouts directly.

Technical data

Input:	1 analogue input (sensors) 2 switches for light barrier and brake light trigger
Power supply:	via the 12 V/24 V DC socket
Storage medium:	SD card (4 - 16 GB)
Dimensions:	22.4 x 14.6 x 2.9 cm (W/L/H)
Display:	20 digits, alphanumeric with backlight
Output:	USB, RS232, SD Card
Printer:	High-speed thermal printer

Scope of Delivery

- DB-Print
- supply cable
- brake light cable
- RS232 cable
- USB adapter
- brake switch
- SD Card 16 GB
- 1 roll of thermal paper
- software DBSSI WIN
- carrying case (46 x 34 x 14 cm)
- certificate of calibration

Optional accessories

• signal cable	Art.No. **5002**
• paper roll	Art.No. **2915**

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