

ZFG-3000-KIT GPS

Determination of load-bearing capacity and compaction quality of soils and aggregates

TP BF-StB Part B 8.3;
ZTVE-StB 09;
RIL 836 Deutsche Bahn;
RVS 08.03.04;
UNE 103807-2;
IAN73/06, Revision1;
ASTM E2835-11



Main features

- Only compact tester with ergonomic triangular carrying handle (no rolling during transport)
- Only compact tester with integrated calibration reminder
- Only compact tester with self-test for function control of the unit
- Only compact tester with GPS representation in UTM format
- Only compact tester which can be expanded to include a dynamic CBR test (California Bearing Ratio test)
- Only compact tester with SD memory card
- Internal memory for 10,000 measurements
- Variable text input
- Activation of preloading pulses with acoustic signal
- Plausibility check
- Backlit graphics display with curve representation
- Automatic saving of the collected data on SD card or in the internal memory
- Certified in-house production
- Reliable Service department

Macben
Oostjachtpark 12
B-9100 St. Niklaas
T: +32 3 771 48 04
info@macben.be
www.macben.be

Macben Nederland
Smederijstraat 2
NL-4814 DB Breda
T: +31 765 30 23 73
sales@macben.eu
www.macben.eu



Material Testing Equipment

ZTG 3.0 in 5 easy steps:



1. Position loading plate



2. Attach falling weight



3. Switch - on electronic box



4. Perform measurement



5. Print protocol / Calculate results



The following is displayed:

- three settlements with settlement curves and mean value
- three settlement speeds with mean value
- the s/v value as information on compactibility
- The E_{vd} value as deformation modulus



Material Testing Equipment

Macben
Oostjachtpark 12
B-9100 St. Niklaas
T: +32 3 771 48 04
info@macben.be
www.macben.be

Macben Nederland
Smederijstraat 2
NL-4814 DB Breda
T: +31 765 30 23 73
sales@macben.eu
www.macben.eu

Examples of use



Equipment:

Settlement gauge incl. SD card slot, printer and GPS

Load plate (with high-quality galvanised finish)

10 kg loading device (Evd 5-70 MN/m²)

Calibration log

Comprehensive operating instructions

The measurement results from the ZFG 3000 GPS can be evaluated on site and at the PC. On completion of every measurement, the result can be read off from the large backlit display together with all the measurement curves and is automatically saved in the internal memory or on an SD card. Settling, mean values, the s/v ratio, the dynamic deformation modulus E_{vd}, GPS positions and the text input for the test location are also shown on the printout on site. Up to 10,000 measurements can be transferred to the "ZFG software" on the PC using the SD card. Here the test logs are displayed individually together with all the information and measurement results, a summary of the log and the evaluation in a statistical representation. An interface to Google Maps allows visual representation of the respective measurement point on the map. The coordinates can also be converted into a UTM format. Documentation is therefore very simple and traceable.

Dynamic Plate Lightweight single version 10 kg and 15 kg with GPS software With software, transport box on wheels, inprinter in a box, magnetic plate Weight 10 kg (Evd 5-70 MN / m²) and 15 kg (Evd 70-105 MN / m² or Ev1 75-120 MN / m²)



07_2017

Macben
Oostjachtpark 12
B-9100 St. Niklaas
T: +32 3 771 48 04
info@macben.be
www.macben.be

Macben Nederland
Smederijstraat 2
NL-4814 DB Breda
T: +31 765 30 23 73
sales@macben.eu
www.macben.eu

Material Testing Equipment