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## Light Weight Deflectometer ZI 3086

Standards: ASTM E2835-11

Specification:

Corresponding to “German technical test code for soil and rock mechanics in road constructions” TP BF-STP part B 8.3 from the German federal road research institute ( Bundesanstalt für Straßenwesen ) accredited compaction test according to ZTV E 2009 and ZTV A 2012 (German supplementary technical terms and conditions of contract and guidelines for earthworks in road construction and excavations in traffic areas) RIL 836 German National Railway Company Deutsche Bahn AG Calibration record corresponding to German standard TP BF-STB part B 8.3 Detailed instruction manual in English

### Mechanical System:

- Loading device with 10 kg drop weight (measurement range EVD=15-70 mn/Sq. m)
- Load plate 300 mm with high-quality accelerometer
- Angled load plate handles for hooking up (mobile testing system)
- Ergonomic hexangular weight-catching grip for comfortable handling on the construction site
- Safety grip with integrated spirit level, tightly screwed to the guide rod
- Electro less nickel coating, especially suitable for construction sites, since largely resistant to alkaline constituents (lime, cement, concrete



etc.)

- Tüv-certified

#### Testing Computer:

Testing computer in weatherproof box with large inspection window and external control buttons, enabling operation under closed cover, protecting the measurement electronics against dust and rain intuitive English-language menu guidance integrated GPS system for immediate calculation, printout and storage of test coordinates testing point will be shown in satellite picture with EVD-value, date and time (can be turned off) integrated thermal printer for immediate report printout on the construction site with GPS coordinates saving on chip card for convenient data transfer to the PC Text input function available illuminated graphic display for illustration of settlement curves, s/v value and deflection modulus EVD high-performance rechargeable battery with extremely long service life internal memory for more than 2000 tests, PC interface via USB socket charger for 100-240 V input voltages as well as car charger USB data transfer cable for reading out the internal memory via the PC switchable to 15Kg loading device.

#### Software in English:

Software for MS-Windows NT, windows 2000, XP, vista, windows 7 on cd rom presentation of testing points with date and time in satellite picture (can be turned off) Individual data records with user-designed company logo and color coded settlement curves as A4 sized record.

Statistical analysis of the tests in accordance with German standard TP BF STP part B8.3 detailed English user guide.

Information cards with quick start guide in English. Rules for proper use correlation static/dynamic Chart EV2-EVD (static/dynamic) with minimum requirements according to German standard ZTV E