

The Light Weight Deflectometer HMP LFG4

Brief instructions*

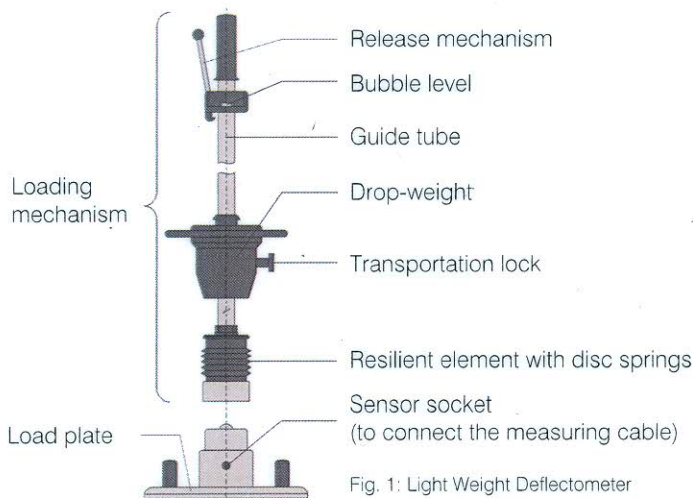


Fig. 1: Light Weight Deflectometer

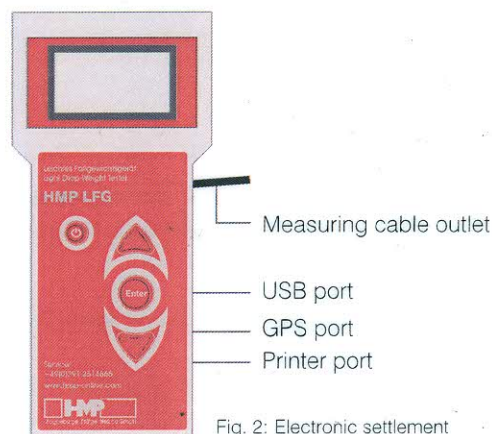


Fig. 2: Electronic settlement measuring instrument

Key functions

- Switch on / off measuring instrument
- Select upward
- Select downward
- Confirm selection / Start action

Menu functions

Measuring	Taking measurement	
Measured data	Read/Print	
	USB	
	Delete	
Settings	Display	Date
		Time
		Language
	Device	Drop weight
		GPS
		Unit
		Calibr.date
	Printer	Print head
		Date/time
		Graphics
		Contact data

By confirming the menu item »Back« you always come back to the previous menu.

Preparing the Test

- Place the load plate on plain ground such that full-area support is ensured.
 - Position the loading mechanism on the load plate.
 - Disengage the transportation lock.
 - Interconnect the settlement measuring instrument and the load plate by the measuring cable.
 - Switch on the settlement measuring instrument.
 - Confirm the »Measuring« mode.
- ➔ The prompt »Precompact three times please« pops up on the screen.
 - Precompact the soil three times:
 - Engage the drop weight on the release mechanism.
 - Use the bubble level to align the guide tube until it is in vertical position to the soil.
 - Release the lever.
 - Catch the rebounding drop-weight by hand.

Measuring Procedure

The base settings of the electronic settlement measuring instrument comply with the ordered device type. Individual adjustments can be carried out in the "Settings" menu.

Start measuring

- Start the measuring process by pressing the [Enter] key.
 - ➔ An acoustic signal is emitted and on the screen appears the request »Initiate measuring«.
- Successively perform 3 impacts.

Important:

Handle the drop-weight as described for precompacting the soil. The readiness for measurement only insists during displaying »Initiate measuring«.

- ➔ The values of settlement amplitudes S1, S2 and S3 are displayed on the screen.
- ➔ After the third measurement the individual settlement amplitudes and the average settlement S_m as well as the path-speed-ratio s/v and the calculated E_{vd} -value are displayed.

Store and print current measured data

Upon completion of one test series the following functions can be chosen by pressing the \triangle ∇ keys:

- Save: Store the current test series under the displayed test series number
- Delete: Delete the current test series and return to main menu
- Print: Print out the current test series
- Back: Return to the main menu

Hints for maintenance and servicing

For a long life and reliable operation of your Light Drop-Weight Tester, we recommend:

Before use:

- Wipe the guide tube with a slightly oily rag to ensure unhindered movement of the drop weight (use only acid free oil).

After use:

- Wipe off any dirt and wetness of the device.

- Oil slightly release mechanism and drop weight.
- Control the drilling of the transportation lock and remove existing slots and burr respectively.

Monthly:

- Check release mechanism and oil slightly.
- Check transportation lock and oil slightly.
- Check drop height.
(specified size: see calibration sign on drop weight)

Important:

The instruction manual, test codes for using the HMP LFG, PC software as well as videos with HMP image and using HMP LFG and HMP PDG please find on supplied USB stick.



Re-calibration is required at least annually and after any repair.

(In conformance with the German »Technical test code for soil and rock in road construction TP BF – StB part B 8.3 / 2003«)

* These Brief Instructions are not a substitute for the Instruction Manual. The right to introduce technical modifications is reserved.