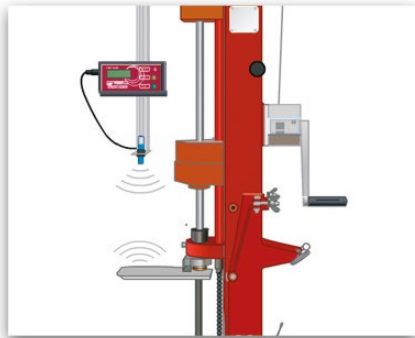


# HMP SON for Penetration

**determine automatically and evaluate immediately**



## HMP SON-M

suitable for all common mechanical penetrometers

The measuring instrument registers the impact number acoustically. In parallel the penetration depth is determined via an ultrasonic sensor. The correlation and storage of the number of impacts for each 10cm takes place automatically.

## HMP SON-P

compatible for all pneumatic penetrometers

The measuring instrument registers the impacts by means of a pressure sensor. By pressing the foot button after each 10cm of penetration depth, the corresponding impact rate is allocated to the penetration depth and stored.

Just forget annoying manually counting and evaluation. The new development HMP SON does that at the flick of a switch for you. HMP SON is a sophisticated automatic acquisition- and evaluation unit for penetration according to **EN ISO 22 476-2** - developed by HMP

Both measuring systems can easily be retrofitted and are applicable mobilely because of the efficient accumulators.

## Advantages

- ✓ faultless, automatic measured value acquisition and -evaluation
- ✓ enormous time savings due to automated evaluation
- ✓ print out a short report immediately at the construction site
- ✓ fast, comfortable protocol issuing at PC



# HMP SON<sup>pro</sup> - P

easy, fast and accurate

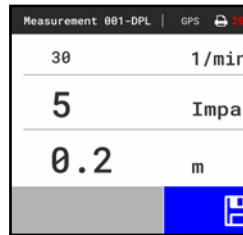
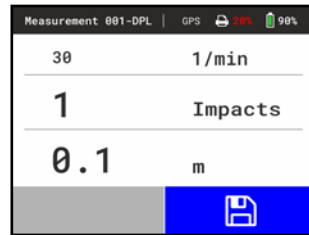
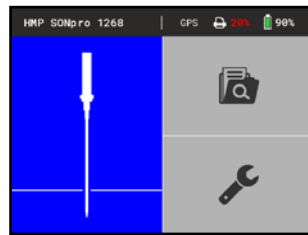
print the short protocol immediately on the construction site

Intuitive menu navigation: choose > confirm > ready!

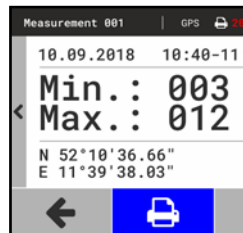
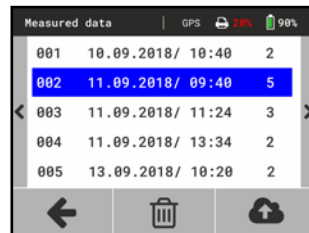
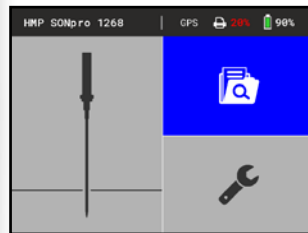
Test surface/layer

Date: 20.09.2018  
 Beginn. time: 10:40  
 Finish. time: 11:40

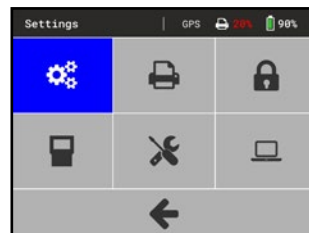
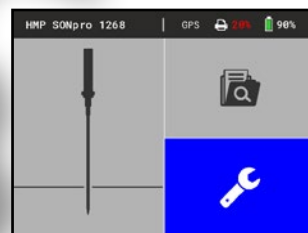
Depth: in m	Impacts
0.1	3
0.2	7
0.3	8
0.4	11



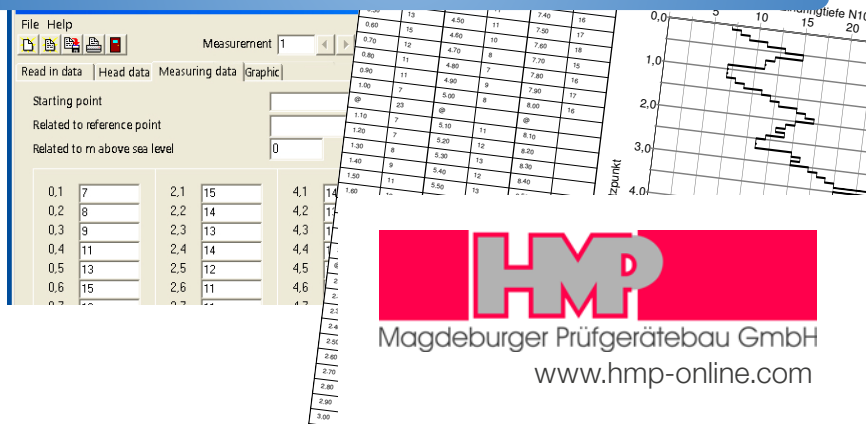
Clearly arranged display and comfortable management of the measured data



Individual device settings



PC software PROSON for postprocessing and creation of professional test protocols



- USB
- GPS
- Printer
- Software

Revision 10/2018



**MADE IN GERMANY**

Calibration INSTITUTE  
 authorised by the Federal Highway Research Institute

**HMP**  
 Magdeburger Prüfgerätekabau GmbH  
 www.hmp-online.com