

# Operating Manual

## Pocket Concrete Penetrometer





**Importance of this Operational Manual:**

**Warning:** It is expected that users and operators read and understand this entire Operational Manual before putting the system into operation. Reading and understanding the entire Operational Manual are absolutely necessary before operating the system.

**Contents**

**Page no.:**

- 1. **Basic instructions .....3**
- 2. **Receiving the system from the forwarding agent .....3**
- 3. **Technical features .....4**
- 4. **Use.....4**
- 5. **After-sales service and spare parts .....5**
  - 5.1 Date of issue of this Operational Manual.....5
  - 5.2 Copyright.....5
  - 5.3 Contact for help and spare parts .....5

## 1. Basic instructions

This Operational Manual contains the information required for operation of the product described here, for the purpose for which they have been designed. This Operational Manual is intended to be used only by technically qualified staff.

“Technically qualified staff” is defined as those persons who – as a result of their training; their experience; the instructions which they have received; as well as their knowledge of the relevant standards, regulations, accident-prevention regulations, and conditions under which the product will be operated in the company – have been authorized by the person responsible for the safety of the company facilities and staff to carry out the activities and actions required for operation of the equipment described below, and who can recognize and prevent any possible dangers arising from such operation (this definition of technically qualified staff has been provided in IEC 364).

The User must by all means observe the requirements and limit values, as well as all safety instructions, given in this Operational Manual. Any use of this device not in conformity with these stipulations shall be considered to be in violation of the use for which this system was intended. If this device must be operated under special conditions, or with special modes of operation, then this is authorized only after consultation with the manufacturer, and after obtaining his prior and express approval.

## 2. Receiving the system from the forwarding agent

When the device arrives from the forwarding agent, make an external inspection. If there are no visible damages or other shortcomings, accept the consignment from the freight forwarder (the package service or a haulage agent).

If there are no transport damages or other shortcomings, use the bill of delivery to check to make sure that the delivery is complete.

If you believe that transport damage may have taken place when you receive the equipment, or if you discover after you have accepted the delivery that damage has occurred, immediately make a report of this damage, with an exact description of the nature and the extent of the damage. Send this report to us immediately by fax. Important: Be sure not to make any changes or other alterations to the system as it has been delivered.

When we receive this report, we shall decide whether we can solve the difficulty by one of the following steps:

- Delivery to you of spare parts
- Sending a specialist fitter or mechanic to your company
- Asking for return of the system to us for replacement or repair.

### **3. Technical features**

Thank to the ratio of the needle diameter and the calibrated spring of the penetrometer, this index gives directly the compression value in kPa and Lbf/in<sup>2</sup> which is the strength value to the compression

Dimensions: 25x210mm  
Weight: 400g

The pocket concrete penetrometer has a scale of 0-5000 Kpa and 0-740 Lbf/in<sup>2</sup>.  
The penetration needle has a diameter of 6.4 mm (1/4") - 32 mm<sup>2</sup> surface.  
The penetrometer has engraved a numerical scale, on which a sliding index is foreseen.  
The operator must put on the zero this index before starting the test.  
During the mortar concrete compression, this index is automatically sided and it stops on the scale by indicating the test result.

### **4. Use**

Take into the hands the penetrometer, lay the penetration needle on the concrete mortar sample to be tested.  
Give a progressive pressure until the needle is entered into the sample to the mark placed on the needle and which is well visible (25,4 mm = 1 inch).  
At least ten tests must be carried out for each concrete mortar sample to be tested: do not consider the two lowest and higher values, then calculate the average of the remaining six value as result of the test.

## 5. After-sales service and spare parts

A great deal of care has been taken to ensure that this Operational Manual is correct. We cannot, however, guarantee that it is without mistakes or errors, or that all information contained herein will continue to remain valid in the event of technical changes.

### 5.1 Date of issue of this Operational Manual

Edition no. 4  
Date of issue: Jan of 2005

### 5.2 Copyright

The copyright to this Operational Manual remains with the company

**TESTING** Bluhm & Feuerherdt GmbH.

This Operational Manual is intended only for the Operator, the User, and his staff. The information in this Operational Manual may not be:

- Reproduced, or
- Distributed, or
- Provided to any other persons.

Any person acting in violation of the above stipulations may be prosecuted before a court of law.

### 5.3 Contact for help and spare parts

If you have any technical questions, or if you require spare parts, please get directly in touch with the following address:

**TESTING Bluhm & Feuerherdt GmbH**  
Motzener Str. 26b  
DE – 12277 Berlin  
Germany  
Tel. +49 30 (0) 710 96 45-0  
Fax: +49 30 (0) 710 96 45-98  
E-mail: [info@testing.de](mailto:info@testing.de)  
[www.testing.de](http://www.testing.de)

