



User Manual

PCE-PMI 1BT Moisture Meter



User manuals in various languages (français, italiano, español, português, nederlands, türk, polski, русский, 中文) can be found by using our product search on: www.pce-instruments.com

Last change: 9 August 2022
v1.0



Contents

1	Safety notes	1
2	Specifications	2
3	Delivery scope	2
4	Device description	3
5	Establishing a Bluetooth connection	4
5.1	Making a measurement	4
6	Replacing batteries	4
7	Status display	4
8	Automatic power off	4
9	Contact	5
10	Disposal	5

1 Safety notes

Please read this manual carefully and completely before you use the device for the first time. The device may only be used by qualified personnel and repaired by PCE Instruments personnel. Damage or injuries caused by non-observance of the manual are excluded from our liability and not covered by our warranty.

- The device must only be used as described in this instruction manual. If used otherwise, this can cause dangerous situations for the user and damage to the meter.
- The instrument may only be used if the environmental conditions (temperature, relative humidity, ...) are within the ranges stated in the technical specifications. Do not expose the device to extreme temperatures, direct sunlight, extreme humidity or moisture.
- Do not expose the device to shocks or strong vibrations.
- The case should only be opened by qualified PCE Instruments personnel.
- Never use the instrument when your hands are wet.
- You must not make any technical changes to the device.
- The appliance should only be cleaned with a damp cloth. Use only pH-neutral cleaner, no abrasives or solvents.
- The device must only be used with accessories from PCE Instruments or equivalent.
- Before each use, inspect the case for visible damage. If any damage is visible, do not use the device.
- Do not use the instrument in explosive atmospheres.
- The measurement range as stated in the specifications must not be exceeded under any circumstances.
- Non-observance of the safety notes can cause damage to the device and injuries to the user.

We do not assume liability for printing errors or any other mistakes in this manual.

We expressly point to our general guarantee terms which can be found in our general terms of business.



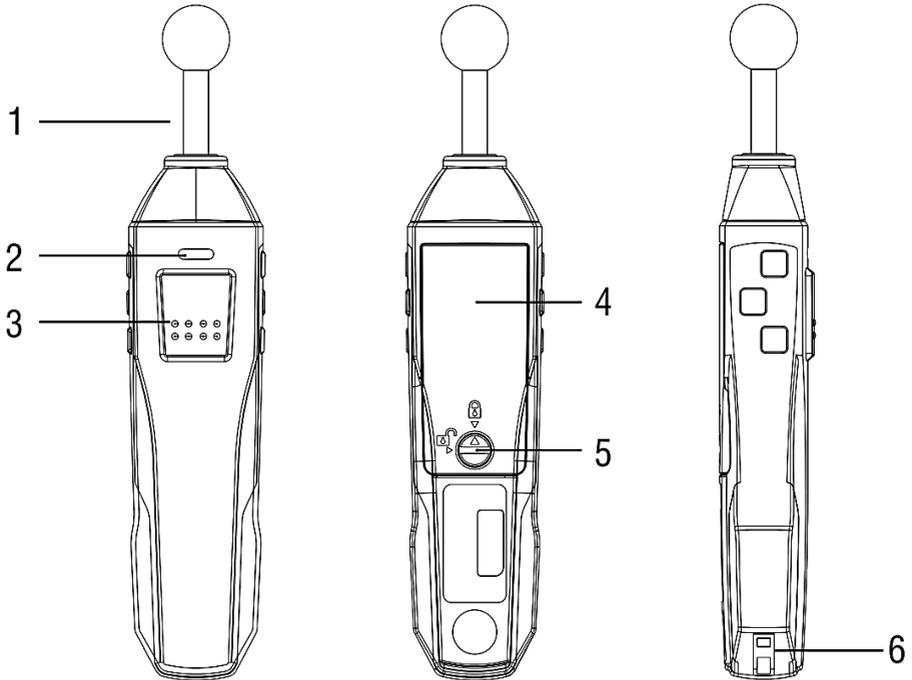
2 Specifications

Measurement range	0.0 ... 100.0 %
Resolution	0.1 %
Measurement rate	2 Hz
Measuring depth	20 ... 40 mm / 0.78 ... 1.57"
Interface	Bluetooth 4.0
Measuring principle	capacitive (electrical resistance)
Sensor type	metal spheroid
Power supply	2 x 1.5 V AAA batteries
Operating conditions	0 ... 50 °C / 32 ... 122 °F <90 % RH, non-condensing
Dimensions	160 x 33 x 20 mm / 6.3 x 1.3 x 0.7"
Weight	93 g / 3.2 oz

3 Delivery scope

- 1 x moisture meter PCE-PMI 1BT
- 2 x 1.5 V AAA batteries
- 1 x user manual
- 1 x hand strap

4 Device description



No.	Description
1	Measuring ball
2	Status display
3	On and off switch
4	Battery compartment cover
5	Closure of the battery compartment cover
6	Loop holder



5 Establishing a Bluetooth connection

To establish a Bluetooth connection, first switch on the meter. Then download the app "PCE SmartMeasure Environmental" from the respective store.



Android Store



Apple Store

To establish a connection, first switch on the meter.

Enable Bluetooth and the location function in your mobile device.

Next, open the app and apply the "Connect" button.

Now select "Search devices" in the lower area of the display and connect to the PCE-PMI 1BT by selecting the device.

After the connection, the meter can be operated via the app.

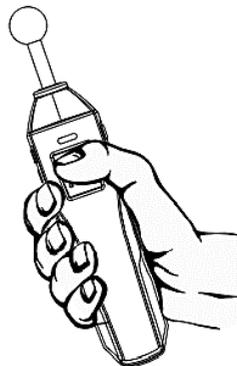
Note: Do not establish a connection via the system setting but only via the app.

5.1 Making a measurement

Once a connection has been established, a measurement can be taken. The meter should be held as shown in the illustration. For a measurement, place the measuring ball on the surface to be checked. You can read the measured value directly from your mobile device.

Note: On an even surface, the distance between the nearest wall and the measuring ball must not be less than 10 cm. During the measurement, the measuring device must be positioned perpendicular to the sample.

When making a measurement, your hand should not come close to the metal ball as the water content in the human body will falsify the measurement.



6 Replacing batteries

To replace the batteries, first switch off the meter. Then open the battery compartment on the back and insert 2 x 1.5 V AAA batteries. Make sure that the polarity is correct.

7 Status display

Status display (LED)	Meaning
Green (flashing)	Bluetooth connection established
Yellow (flashing)	Bluetooth connection not established
Yellow (constant)	Battery voltage too low

8 Automatic power off

When the meter is not connected to a mobile handheld device, it will switch off within 3 minutes.

9 Contact

If you have any questions, suggestions or technical problems, please do not hesitate to contact us. You will find the relevant contact information at the end of this user manual.

10 Disposal

For the disposal of batteries in the EU, the 2006/66/EC directive of the European Parliament applies. Due to the contained pollutants, batteries must not be disposed of as household waste. They must be given to collection points designed for that purpose.

In order to comply with the EU directive 2012/19/EU we take our devices back. We either re-use them or give them to a recycling company which disposes of the devices in line with law.

For countries outside the EU, batteries and devices should be disposed of in accordance with your local waste regulations.

If you have any questions, please contact PCE Instruments.





PCE Instruments contact information

Germany

PCE Deutschland GmbH
Im Langel 26
D-59872 Meschede
Deutschland
Tel.: +49 (0) 2903 976 99 0
Fax: +49 (0) 2903 976 99 29
info@pce-instruments.com
www.pce-instruments.com/deutsch

United Kingdom

PCE Instruments UK Ltd
Unit 11 Southpoint Business Park
Ensign Way, Southampton
Hampshire
United Kingdom, SO31 4RF
Tel: +44 (0) 2380 98703 0
Fax: +44 (0) 2380 98703 9
info@pce-instruments.co.uk
www.pce-instruments.com/english

The Netherlands

PCE Brookhuis B.V.
Institutenweg 15
7521 PH Enschede
Nederland
Telefoon: +31 (0)53 737 01 92
info@pcebenelux.nl
www.pce-instruments.com/dutch

France

PCE Instruments France EURL
23, rue de Strasbourg
67250 Soultz-Sous-Forêts
France
Téléphone: +33 (0) 972 3537 17
Numéro de fax: +33 (0) 972 3537 18
info@pce-france.fr
www.pce-instruments.com/french

Italy

PCE Italia s.r.l.
Via Pesciatina 878 / B-Interno 6
55010 Loc. Gragnano
Capannori (Lucca)
Italia
Telefono: +39 0583 975 114
Fax: +39 0583 974 824
info@pce-italia.it
www.pce-instruments.com/italiano

United States of America

PCE Americas Inc.
1201 Jupiter Park Drive, Suite 8
Jupiter / Palm Beach
33458 FL
USA
Tel: +1 (561) 320-9162
Fax: +1 (561) 320-9176
info@pce-americas.com
www.pce-instruments.com/us

Spain

PCE Ibérica S.L.
Calle Mayor, 53
02500 Tobarra (Albacete)
España
Tel. : +34 967 543 548
Fax: +34 967 543 542
info@pce-iberica.es
www.pce-instruments.com/espanol

Turkey

PCE Teknik Cihazları Ltd.Şti.
Halkalı Merkez Mah.
Pehlivan Sok. No.6/C
34303 Küçükçekmece - İstanbul
Türkiye
Tel: 0212 471 11 47
Faks: 0212 705 53 93
info@pce- cihazlari.com.tr
www.pce-instruments.com/turkish

Denmark

PCE Instruments Denmark ApS
Birk Centerpark 40
7400 Herning
Denmark