

## Intended use

The protractor has been designed for measuring and transmitting of angles. It is exclusively intended for private use and must not be used for commercial purposes.

## Safety information

**All safety information and instructions for operation must be read and complied with prior to use. Keep these instructions in a safe place and hand the document over if the product is passed on to third parties.**

- Do not allow children to play with the protractor tool or its packaging.
- Never expose the protractor to high temperatures and/or humidity.
- When working at or on sensitive surfaces, handle the tool with care to prevent scratches or damage.

## Safe handling of batteries

- Non-rechargeable batteries must never be charged!
- Keep batteries out of the reach of children!
- Do not short-circuit batteries or throw them into fire!
- Only use battery types as recommended!!
- If the device is not used for a prolonged period, remove the batteries!

## Device description

1. Measuring leg
2. LC display
3. Clamping screw
4. ZERO reset button
5. ON/OFF switch
6. Battery compartment button
7. Battery receptacle
8. Button cell

## Specifications

|                       |                        |
|-----------------------|------------------------|
| Measuring range       | 0-360 °                |
| Resolution            | 0,1°                   |
| Accuracy              | +/- 0,3°               |
| Operating temperature | +5 – +40° C            |
| Rel. humidity         | < 80%                  |
| Operating voltage     | 3 V button cell CR2032 |

## Features

- Zero reset in any optional position
- Manual and automatic shutoff

## Operation

- Loosen the clamping screw (3) and press the ON/OFF switch (5).
- Place the protractor on an even surface. Make sure that both measuring legs (1) make proper contact with the surface.
- Press the „ZERO“ reset button (4) to set the LCD indicator to “0.00”.
- Pivot one of the two measuring legs to measure the required angle.
- For securing the measured value, tighten the clamping screw (3).
- Both legs may also be opened to 180°, or aligned with the surface. Then press the “ZERO“ reset button to reset the display to zero.
- In case that the two legs are pivoted beyond 360°, “ERR“ will be displayed in the LCD. In that case, pivot the legs back to their initial position, press the “ZERO“ reset button and repeat the measurement.
- After use, switch off the LCD by pressing the ON/OFF switch (5).
- If the device is not used for approx. 5 minutes, the display will switch off automatically.

## Changing the battery

If the battery is low, the battery icon is shown in the display.

- Press the battery compartment button (6) and pull the battery receptacle (7) out of the case. Replace the used battery (8) by a new one of the same type (CR 2032).
- While doing so, ensure correct polarity.
- Shift the receptacle (7) back into the battery case.
- If the protractor is not going to be used for a prolonged period, please remove the battery.

**ATTENTION:** Used batteries must not be thrown into your domestic waste but have to be disposed at specifically provided collection points.

## Cleaning and storage

- Before and after use, clean the protractor, and especially the measuring legs, using a dry cloth.
- Do not use liquid cleaning agents, such as naphta or acetone, and the like.
- Always store the protractor in the supplied packaging to protect it from damage and/or soiling.

## 10-year full warranty

The warranty period for this device shall start with the date of purchase. Please furnish proof of the date of purchase by sending in the original purchase receipt. During the warranty period we guarantee the following:

- Free troubleshooting and repair of potential faults.
- Replacement of all parts becoming damaged, free of charge
- Including free, professional service (i.e. repair by our specialists, free of charge).

The condition for this is that the respective errors are not attributed to incorrect handling. In case of any queries or quality issues, please directly contact the manufacturer:

Brüder Mannesmann Werkzeuge GmbH  
Abt. Reparatur-Service  
Lempstr. 24  
42859 Remscheid

Telefon: +49 2191/37 14 71  
Telefax: +49 2191/38 64 77  
E-Mail: [service@br-mannesmann.de](mailto:service@br-mannesmann.de)

## Disposal

In the interests of environmental protection, please properly dispose the tool in compliance with rules and regulations. Do not throw it into your domestic waste but dispose of it with electrical/electronic waste.

