

## Digital angle measuring tool

The CLOUTH DOCTOR-GAUGE® is designed to record angle values.  
It is used to align the doctor blade to the roller on the paper machine.

Take these precautionary measures to avoid damage.

### Safety instructions

- Do not expose the CLOUTH DOCTOR-GAUGE® to any mechanical stresses. It can be damaged by knocks, impacts or falling – even from a small height.
- Protect the CLOUTH DOCTOR-GAUGE® from extreme temperatures, direct sunlight, excessive humidity, moisture, flammable gases, vapours and solvents.
- The angle gauge housing is made of conductive metal. Therefore, never measure on objects that are live. This not only results in a risk of short circuits, but also a danger of death due to electric shock!

### CLOUTH DOCTOR-GAUGE®



#### Version, technical data

Resolution:	0.05 degrees
Accuracy:	0.5
Battery:	9V block 6LR61
Operating temperature:	0 - 40 °C
Display:	Digital decimal display

#### Dimensions (L x W x H):

Angle gauge:	57 x 57 x 30 mm
Angle gauge with measuring base:	100 x 65 x 20 mm

#### Weight:

Angle gauge with battery:	125 g
Housing/measuring base:	215 g
Total weight:	<b>340 g</b>

### Proper use

The CLOUTH DOCTOR-GAUGE® is used to set and determine angles and is intended for aligning the doctor blade to the roller. The measured values are shown on the display.

The CLOUTH DOCTOR-GAUGE® is already calibrated and ready for use right away. The device is battery-operated and is therefore only assembled shortly before despatch, in order to preserve the battery life.

### Items included in the delivery

- 1 x digital angle gauge with battery
- 1 x mini screwdriver (required to open the battery cover)
- Transport box with operating instructions

Check the contents for completeness when unpacking. Please notify us in the event of missing accessories or transport damage; see contact details.

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### Control panel

- 1 ON/OFF/LEVEL button
- 2 HOLD button
- 3 ZERO button
- 4 MEASURING BASE
- 5 DISPLAY
- 6 Battery compartment (not shown / on the rear)  
Remove the rear panel to replace the battery

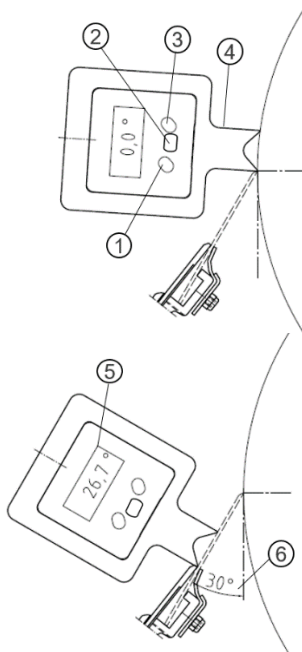
### Operation

Prior to using the device, check it externally for any damage and defects.

- When inserting the battery, make sure that the polarity is correct.
- Press the ON/OFF/LEVEL button (1). "LEVEL" appears on the display. The device is ready to start measuring. The angle to the horizontal is displayed.
- Place the measuring device on the work surface and press the ZERO button (3). ("LEVEL" disappears from the display).  
Swivel the measuring device to the second surface.  
The angle between the two surfaces is displayed.  
Press the HOLD button (2). "HOLD" appears on the display. Press the HOLD button (2) again to return to measuring mode.
- To switch the device off, press the ON/OFF/LEVEL button (1). If the device is not in use, it switches off automatically after 3 minutes.
- If the device is expected to remain unused for an extended period of time, remove the battery to prevent damage due to leakage. Leaking or damaged batteries can cause burns on contact with the skin. Wear protective gloves when handling damaged batteries.

### Application

The CLOUTH DOCTOR-GAUGE® is suitable for measuring cylinder and roller diameters from 300 mm to 2000 mm and an angle of attack  $\pm 180^\circ$  to the tangent.



- **Figure 1:** The CLOUTH DOCTOR-GAUGE® is placed in position on the doctor blade and on the roller surface with its special measuring base (4).
  - Press the ON/OFF/LEVEL button (1) to switch on the CLOUTH DOCTOR-GAUGE®.
  - Press the ZERO button (3) to set the value in the digital display to 0.0°.
  - **Figure 2:** The CLOUTH DOCTOR-GAUGE® is placed in position on the doctor blade and the measured value is taken from the display (5) (in this case 26.7°).
  - Now take the correction value from the table on the back of the CLOUTH DOCTOR-GAUGE® (in this case + 3.3°) and add it to the measured value (26.7°) ( $26.7^\circ + 3.3^\circ = 30.0^\circ$ ).
  - The angle of attack in this case is therefore exactly 30.0°.
- Press the HOLD button (2) again for a short time to hold the measurement data.



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Cylinder diameter in millimetres (mm)	Cylinder diameter in inches (")	Correction value in degrees (°)
300 to 399	12.00 to 15.70	+ 3.3
400 to 549	15.75 to 21.60	+ 2.5
550 to 749	21.65 to 29.50	+ 1.8
750 to 999	29.55 to 39.30	+ 1.3
1000 to 1399	39.35 to 55.00	+ 1.0
1400 to 2000	55.05 to 78.70	+ 0.7

### Maintenance and cleaning

The CLOUTH DOCTOR-GAUGE® does not require any maintenance. Clean it with a soft, lint-free cloth. Do not use any aggressive cleaning agents or other chemical solutions, because this may damage the housing and impair its function.

Never immerse the device in water to clean it.

### Environmental protection

The packaging materials are recyclable. Please dispose of the device in accordance with local laws/regulations.

### Disposal

Electronic devices are recyclable goods and do not belong in the residual waste. Dispose of the device at the end of its service life in accordance with the applicable legal regulations.

■ Batteries:

Disposal in residual waste is prohibited.

