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**Thank you for choosing WYLER!**

Read this quick reference before start working with **CLINOMETER 80**.  
**Please follow the safety instructions.**

**Brand and Type**

<b>Brand</b>	<b>CLINOMETER 80</b>	<b>Type</b>	Art.no.	180-150-112-300 180-150-115-300
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**Warning!**

The following sign is used in this quick reference:  
This is intended to indicate special hazards



**Intended use**

The **CLINOMETER 80** is designed exclusively to measure inclination with the range +/- 180°  
Attention: There is no other use!

**Not intended use / safety instructions**

- Do not use as a hammer! Probably damaged measuring surfaces are not usable anymore.
- Do not throw the device! The housing can cause serious injury.



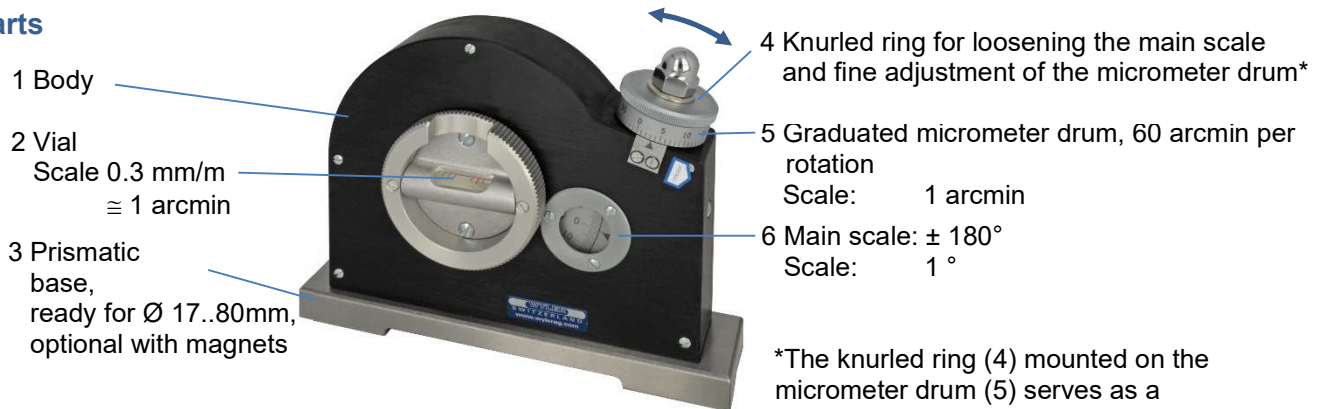
**Technical data, dimension, weight, operation/storage-temperature, storage box**

Prisma for cylinder Ø:	17..80 mm	Scale vial: 0.3 mm/m $\cong$ 1 arcmin
Roll over stability:	+/- 2°	Scale micrometer drum: 1 arcmin
Instrument L x W x H:	150 x 35 x 116 mm	Main scale: 1°
Case L x W x H:	205 x 75 x 175 mm	Weight net: 1.6 kg
Operation/storage temp.:	15..25°C / -40..70°C DIN 2276-1	Weight case: 0.5 kg

**Standard scope of delivery**

- CLINOMETER 80
- Case for storage, transport and shipping.
- Quick reference

**Parts**



\*The knurled ring (4) mounted on the micrometer drum (5) serves as a handle to loosen the main scale

(coarse setting) by pushing it to the right side of the housing. Turn the vial (2) into the horizontal position and carefully release the knurled ring (4) again. Then turn the knurled ring (4) for fine adjustment.



**Decommissioning, disposal**

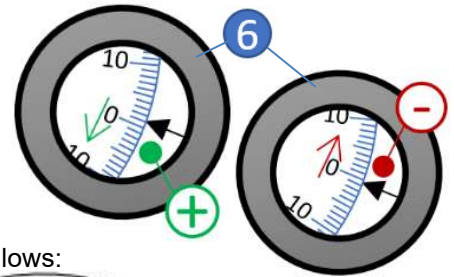
When decommissioning the **CLINOMETER 80**, follow the local regulations for disposal of metal waste.



**Positive and negative inclination: definition of the main scale (6)**

By turning the micrometer drum (5), the main scale (6) moves:

- **Positive angle:** The 0 decreases downwards, the values increase positively.
- **Negative angle:** The 0 increases, the values decrease negatively.



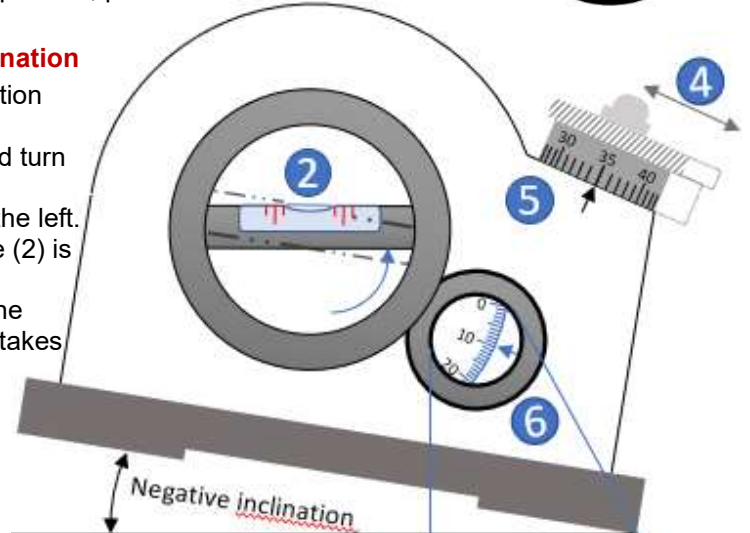
**2 examples**

Depending on whether the inclination is negative or positive, proceed as follows:

**1. Example of measurement with a negative inclination**

- Place the CLINOMETER 80 in a stable position on the measurement object.
- Uncouple the knurled ring (4) to the right and turn the vial (2) until it is roughly horizontal.
- Carefully guide the knurled ring (4) back to the left.
- Turn the knurled ring (4) until the vial bubble (2) is centered.
- Make sure the last correction by turning in the direction of ascending micrometer drum (5) takes place.
- Read the value from the main scale (6) and add it to the value of the micrometer drum (5).

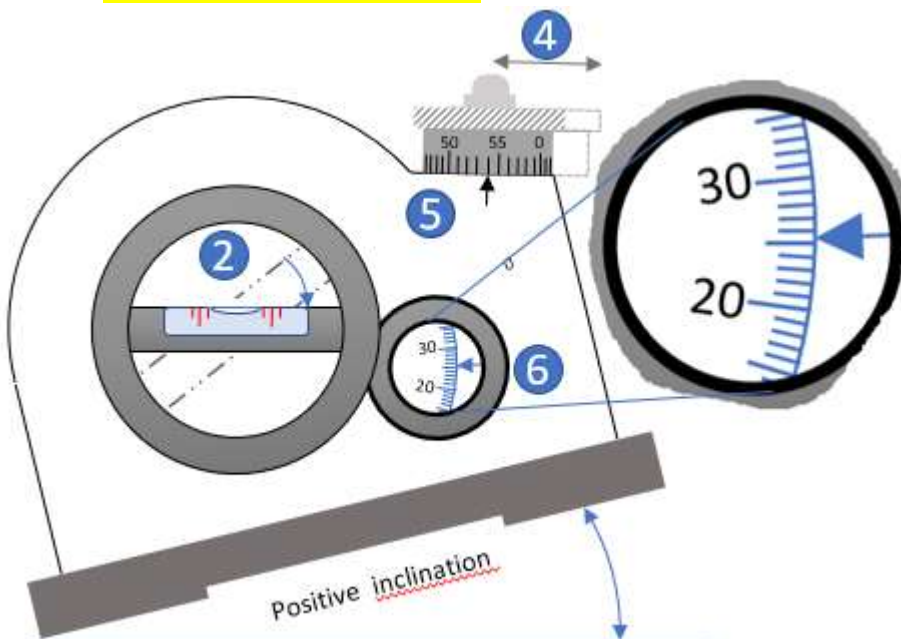
**Result:  $-9^\circ + (-35) \text{ arcmin} = -9^\circ 35'$**



**2. Example of measurement with a positive inclination**

- Place the CLINOMETER 80 in a stable position on the measurement object.
- Uncouple the knurled ring (4) and turn the level (2) until it is roughly horizontal.
- Carefully guide the knurled ring (4) back.
- Turn the knurled ring (4) until the vial bubble (2) is centered.
- Make sure the last correction by turning in the direction of ascending micrometer drum (5) takes place.
- Read the inclination from main scale (6), thereafter read the micrometer drum (5):  
Calculate the number of missing arcmin up to 60 arcmin, add the calculated figure to the reading of the main scale (6).

**Result:  $25^\circ + 6 \text{ arcmin} = 25^\circ 6'$**



**Maintenance**

Please note:

The base is made on steel. To protect the steel base against rust, clean it with an oil-soaked cloth.

Keep the CLINOMETER 80 in the case.

In the event of damage, send the device to your national representative.