**TESA ClinoBEVEL 1**

Electronic Inclinometer

User-friendly, versatile inclinometer made to measure the amount of tilt using either of both direct and differential modes – Measuring range ±45° with clear display of any measured angles or inclination – Reinforced aluminium housing and latest electronics – Large LC display for error free read-out.

### Technical data

- **Identical to those listed opposite, except for the additional data below.**
- **Rust inhibiting housing**
- **2 flat and 2 Vee measuring faces for dia. ranging from 17 to 94 mm**
- **±5° ±0,07% based on measured value**
- **Response time: < 5 s**
- **RS 232**
- **2 batteries 1,5 V, type LRC 6, AA**
- **40 to 60 hours**
- **150x150x35 mm**
- **3 kg**
- **Declaration of conformity**

### Optional Accessories

- 05360004 RS 485 connecting cable, 2,5 m long
- 05360005 RS 485 adapter for RS 232 data output, 9-pin
- 05360006 Cable along with HOLD key
- 04768002 Batteries, type LRC 6 - 1,5 V, AA (4 items)

---

**TESA ClinoBEVEL 2**

Electronic Inclinometer

World-class model – Tilting range ±45° with inclination or angle units clearly displayed – Integrated temperature compensation – Microprocessor-based auxiliaries allowing both display and tool setting – Dual data output for comparative measurements etc.

### Technical data

- **Identical to those listed opposite, except for the additional data below.**
- **Rust inhibiting housing**
- **2 flat and 2 Vee measuring faces for dia. ranging from 17 to 94 mm**
- **±5° ±0,07% based on measured value**
- **Response time: < 5 s**
- **RS 232**
- **2 batteries 1,5 V, type LRC 6, AA**
- **40 to 60 hours**
- **150x150x35 mm**
- **3 kg**
- **Declaration of conformity**

### Optional Accessories

- 05330202 TESA ClinoBEVEL 2 ±45° ± 5° 150
- 04768002 1,5 V Batteries, type LRC 6, AA (4 items)
- S53070174 Connecting cable to PC
**TESA MICROBEVEL 1**

These electronic inclinometers measure slightly inclined surfaces, precisely – e.g. when inspecting flatness of a surface plate or the geometry of a machine – Specially suited for use in rough surrounding conditions.

### Specifications

- **Basis length**: mm
- **Width**: mm
- **mm/m**: kg

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Basis length</th>
<th>Width</th>
<th>mm/m</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>05330003</td>
<td>Horizontal model</td>
<td>110</td>
<td>45</td>
<td>0,01 or 0,001</td>
<td>1,8</td>
</tr>
<tr>
<td>05330004</td>
<td>Horizontal model</td>
<td>150</td>
<td>45</td>
<td>0,01 or 0,001</td>
<td>2,1</td>
</tr>
<tr>
<td>05330005</td>
<td>Square model</td>
<td>150</td>
<td>45</td>
<td>0,01 or 0,001</td>
<td>3,1</td>
</tr>
</tbody>
</table>

Models with numerical interval to 0,05 or 0,005 mm/m available on request.

### Optional Accessories

- **04768002**: 1,5 V Batteries, type LRC 6, AA (4 items)

---

**Technical Details**

- DIN 2276 Part 2 (Style D)
- LCD (see table)
- Fully encapsulated measuring system with gravity pendulum
- Cast iron base, chromium plated side faces, varnished light alloy housing
- 2 flat plus 2 prismatic meas. faces for 20 to 120 mm diameters
- See table below
- Response time < 3 s
- RS 485, asynchronous, 7 bits, 2 stop bits, no parity, 9600 bauds
- 1 mV per unit (100 kΩ)
- 1,5 V battery, type LRC 6, AA
- 100 to 140 hours
- Automatic shut down after 55 min
- 0 to 40°C
- -20 to 70°C
- ± 0,1%/°C based on the measuring range at 20 ±5°C
- As in above table, incl. suited case
- EN 50081-1 / -2
- EN 50082-1 / -2
- Plastic case
- Identification number
- Declaration of conformity

### Response Time

- 

### G Value

- **G = mm/m**: ± 5 mm/m

<table>
<thead>
<tr>
<th>Range</th>
<th>mm/m</th>
<th>mm/m</th>
<th>mm</th>
<th>G = mm/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>± 20</td>
<td>± 5</td>
<td>0,01</td>
<td>G = 1% of measured value plus at least 0,01 mm/m</td>
</tr>
<tr>
<td>2</td>
<td>± 2</td>
<td>± 2</td>
<td>0,001</td>
<td>G = 1% of measured value plus at least 0,001 mm/m</td>
</tr>
</tbody>
</table>

---

**NATIONAL**
TESA SERVICE-SET 1 with Electronic Inclinometers for Fitters

Same features as TESA MICROBEVEL 1 – Each set includes two BEVELtronic1 without indication that serve as value sensors – A separate BEVELmeter1 reading unit can be connected to both BEVELtronic1, thus allowing comparative measurements (an example is shown on page I-2).

<table>
<thead>
<tr>
<th>Model</th>
<th>Inclinometer Kit</th>
<th>mm/m</th>
<th>Basis length</th>
<th>Width mm</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>05338302</td>
<td>TESA MONTEURKIT 1</td>
<td>0,001 ± 2</td>
<td>150</td>
<td>45</td>
<td>6,4*</td>
</tr>
<tr>
<td>05338303</td>
<td>TESA MONTEURKIT 1</td>
<td>0,005 ± 10</td>
<td>150</td>
<td>45</td>
<td>6,4*</td>
</tr>
</tbody>
</table>

Each set includes:
- 1 BEVELtronic 1 – Horizontal model
- 1 BEVELtronic 1 – Square model
- 1 BEVELmeter 1 with numerical interval to 0,001 or 0,005 mm/m
- 2 Connecting cables for BEVELtronic 1 to BEVELmeter 1 (each 2.5 m long)

* with plastic case included

Optional Accessories

04768002 1.5 V Batteries, type LRC 6, AA (4 items)

- LCD as shown in the table
- Response time < 3 s
- RS 232, asynchronous, 7 bits, 2 stop bits, no parity, 9600 bauds
- 4 batteries 1,5V, type LRC 6, AA
- 33 to 40 hours
- Automatic shut down after 8 min

Service Set 1

- 0 to 40°C
- -20° to 70°C
- ≤ 0,1%/°C based on the measuring range at 20° ±5°C
- ≤ 95%
- EN 50081-1 / -2
- EN 50082-1 / -2
- Plastic case
- Identification number
- Declaration of conformity

Partial meas. range mm/m

±1 or ±5

Measuring range mm/m

±2 or ±10

G = mm/m

G = 0,01 (2 [measured value])

G = 1%*

-0,5 [extreme value of the measuring range])

* refers to the measured value
**TESA NIVELTRONIC**

**Electronic Levels**

Most popular electronic levels with a solid cast iron body used for checking and levelling horizontal and vertical surfaces – Also suitable for accurate measurement of small angles, especially while inspecting surface flattness of granite plates.

---

**Inductive measuring system with gravity pendulum**

- Cast iron body.
- Horizontal model with granite base.
- Horizontal model with a flat measuring face. Square model with 2 flat and 2 prismatic faces for diameters from 20 to 120 mm.

- 0,005 mm/m
- ± 1% of the measured value
- ± 0,2 V
- Impedance 4,5 kΩ
- 10 to 30°C
- -20 to 60°C
- EN 50081-1 / -2
- EN 50082-1 / -2
- Wooden case
- Identification number
- Declaration of conformity

---

**Optional Accessories**

- **Granite base***
- **Granite base***
- **Granite base***
- **Granite base***
- **Holder with built-in voltage regulator (4.65 V) plus 1 battery-set as below**
- **1 Set = 4 spare batteries, type LR 03, AAA, 1.5 V**

---

**Basis length**

<table>
<thead>
<tr>
<th>Model</th>
<th>Basis length</th>
<th>Width</th>
<th>mm/m</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal</td>
<td>150</td>
<td>45</td>
<td>0.05 / 0.01</td>
<td>6.0**</td>
</tr>
<tr>
<td>Square model</td>
<td>200</td>
<td>45</td>
<td>0.05 / 0.01</td>
<td>6.5**</td>
</tr>
</tbody>
</table>

---

**Range**

<table>
<thead>
<tr>
<th>Range</th>
<th>mm/m</th>
<th>&quot;</th>
<th>mm/m</th>
<th>&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>± 0.75</td>
<td>± 150&quot;</td>
<td>0.05</td>
<td>10&quot;</td>
</tr>
<tr>
<td>2</td>
<td>± 0.15</td>
<td>± 30&quot;</td>
<td>0.01</td>
<td>2&quot;</td>
</tr>
</tbody>
</table>