

## 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  $\pm 45^\circ$  with clear display of any measured angles or inclination – Reinforced aluminium housing and latest electronics – Large LC display for error free read-out.



|                             |                                              |                |
|-----------------------------|----------------------------------------------|----------------|
|                             |                                              |                |
| <b>05330201</b>             | TESA ClinoBEVEL 1                            | $\pm 45^\circ$ |
|                             |                                              |                |
| mm/m                        | Basis length mm                              |                |
| $\geq 0,02$                 | 100 and 75                                   |                |
| <b>Optional Accessories</b> |                                              |                |
| <b>05360004</b>             | RS 485 connecting cable, 2,5 m long          |                |
| <b>05360005</b>             | RS 485 adapter for RS 232 data output, 9-pin |                |
| <b>05360006</b>             | Cable along with HOLD key                    |                |
| <b>04768002</b>             | Batteries, type LRC 6 - 1,5 V, AA (4 items)  |                |

## TESA ClinoBEVEL 2 Electronic Inclinometer

World-class model – Tilting range  $\pm 45^\circ$  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.



|                             |                                           |                |            |     |
|-----------------------------|-------------------------------------------|----------------|------------|-----|
|                             |                                           |                |            |     |
| <b>05330202</b>             | TESA ClinoBEVEL 2                         | $\pm 45^\circ$ | $\geq 5''$ | 150 |
| <b>Optional Accessories</b> |                                           |                |            |     |
| <b>04768002</b>             | 1,5 V Batteries, type LRC 6, AA (4 items) |                |            |     |
| <b>S53070174</b>            | Connecting cable to PC                    |                |            |     |



DIN 2276  
Part 2  
(Form D)



LC display

### Angle

Decimal or sexagesimal

### Inclination

mm/m, in/10 or 12 in, mm or in/basis length, radian (mrad) and the like



Capacitive measuring system with gravity pendulum



Anodised light alloy



Flat face  
4 x 90°



2' + 1 numerical interval



21 storable correction values (high accuracy)



Response time  $\approx 1$  s



Display lock



RS 485, asynchronous, 7 bits, 2 stop bits, no parity, 9600 bauds



1,5 V battery, type LRC 6, AA



$\approx 150$  hours



Automatic shut down after 8 min



0 to 40 °C



-20 to 70 °C



IP65 (IEC 60529)



EN 50081-1 / -2  
EN 50082-1 / -2



100 x 75 x 35 mm



0,52 kg



Plastic case



Identification number



Inspection report with a declaration of conformity

- 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

# 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.



DIN 2276  
Part 2  
(Style D)

LCD  
(see table)

See table

Fully encapsulated  
measuring  
system with gravity  
pendulum

Cast iron base,  
chromium plated  
side faces,  
varnished light alloy  
housing

2 flat plus 2 pris-  
matic 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 ks2)

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



|                 |                  | Basis length<br>mm | Width<br>mm | mm/m          | kg  |
|-----------------|------------------|--------------------|-------------|---------------|-----|
| <b>05330003</b> | Horizontal model | 110                | 45          | 0,01 or 0,001 | 1,8 |
| <b>05330004</b> | Horizontal model | 150                | 45          | 0,01 or 0,001 | 2,1 |
| <b>05330005</b> | Square model     | 150                | 45          | 0,01 or 0,001 | 3,1 |

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)



| Range | mm/m | mm/m | mm    | G = mm/m                                                         | G = mm/m                                            |
|-------|------|------|-------|------------------------------------------------------------------|-----------------------------------------------------|
| 1     | ± 20 | ± 5  | 0,01  | ≤ 5 mm/m<br>G = 1% of measured value<br>plus at least 0,01 mm/m  | > 5 mm/m<br>G = 0,01 mm/m                           |
| 2     | ± 2  | ± 2  | 0,001 | ≤ 1 mm/m<br>G = 1% of measured value<br>plus at least 0,001 mm/m | > 1 mm/m<br>G = 1% of<br>(2x the measured value -1) |

## TESA SERVICE-SET 1 with Electronic Inclinometers for Fitters

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

|                              |                                                                         | mm/m  | mm   | mm/m | Basis length | Width mm | kg   |
|------------------------------|-------------------------------------------------------------------------|-------|------|------|--------------|----------|------|
| 05330302                     | TESA MONTEURKIT 1                                                       | 0,001 | ± 2  |      |              |          | 6,4* |
| 05330303                     | TESA MONTEURKIT 1                                                       | 0,005 | ± 10 |      |              |          | 6,4* |
| Each set includes:           |                                                                         |       |      |      |              |          |      |
|                              | 1 BEVELtronic 1 – Horizontal model                                      |       |      |      | 150          | 45       | 1,3  |
|                              | 1 BEVELtronic 1 – Square model                                          |       |      |      | 150          | 45       | 2,2  |
|                              | 1 BEVELmeter 1 with numerical interval to 0,001 or 0,005 mm/m           |       |      |      |              |          | 0,4  |
|                              | 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)                               |       |      |      |              |          |      |



Partial meas. range  
mm/m

±1 or ±5

Measuring range  
mm/m

±2 or ±10



G = mm/m  
G = 1%\*

G = 0,01 (2 [measured value]  
-0,5 [extreme value of the measuring range])

\* refers to the measured value



DIN 2276  
Part 2  
(Style E)

### BEVELtronic 1

2 flat plus 2 Vee  
measuring faces  
for diameters  
from 20 to 120 mm



1 mV / 0,001 or  
0,005 mm/m



Additional  
technical data  
listed under  
TESA MICROBEVEL 1

### BEVELmeter 1



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




DIN 2276  
Part 2  
(Style D)


See table



See table


Inductive meas-  
uring system with  
gravity pendulum

Cast iron  
body.  
Horizontal model with  
granite base.

Horizontal model  
with a flat meas-  
uring face. Square  
model with 2 flat and 2 pris-  
matic faces for diameters  
from 20 to 120 mm

0,005 mm / m  
+ 1% of the  
measured value


0,001 mm / m


 $\approx \pm 0,2$  V  
Impedance  
4,5 k $\Omega$ 


10 to 30°C



-20 to 60°C


EN 50081-1 / -2  
EN 50082-1 / -2


Wooden case


Identification  
number

Declaration  
of conformity

## 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 flatness of granite plates.


Basis length  
mm

Width  
mm

mm/m

kg

|                 |                  |     |    |             |       |
|-----------------|------------------|-----|----|-------------|-------|
| <b>03130063</b> | Horizontal model | 150 | 45 | 0,05 / 0,01 | 6,0** |
| <b>03130060</b> | Square model     | 200 | 45 | 0,05 / 0,01 | 6,5** |

### Optional Accessories

|                 |                                                                             |     |    |  |     |
|-----------------|-----------------------------------------------------------------------------|-----|----|--|-----|
| <b>03160007</b> | Granite base*                                                               | 200 | 50 |  | 1,0 |
| <b>03160008</b> | Granite base*                                                               | 250 | 50 |  | 1,5 |
| <b>03160009</b> | Granite base*                                                               | 500 | 50 |  | 6,0 |
| <b>03160048</b> | Holder with built-in voltage regulator (4,65 V) plus 1 battery-set as below |     |    |  |     |
| <b>04761059</b> | 1 Set = 4 spare batteries, type LR 03, AAA, 1,5 V                           |     |    |  |     |

\* For horizontal model    \*\* Along with plastic case



Range



mm/m



"



mm/m

"

|   |            |             |      |      |
|---|------------|-------------|------|------|
| 1 | $\pm 0,75$ | $\pm 150''$ | 0,05 | 10'' |
| 2 | $\pm 0,15$ | $\pm 30''$  | 0,01 | 2''  |

