

### Inserting/Replacing the Battery

Carefully remove the end cap 4 with the battery holder. Insert the battery in the holder. Place the connection plate on the battery and snap into place.

### Maintenance and Cleaning

**Do not immerse the unit in water.**

Wipe off dirt with a damp, soft cloth. Do not use strong cleaners or solvents.

### Specification

|                          |                                      |
|--------------------------|--------------------------------------|
| Available lengths:       | 600mm - 1200mm                       |
| Measuring accuracy:      |                                      |
| 0/90°:                   | ±0,05°                               |
| 1/89°:                   | ±0,2°                                |
| Accuracy (bubble level): | ±0.057°                              |
| Vial accuracy:           | 1mm/1m                               |
| Operating temperature:   | - 5°C to + 50°                       |
| Storage temperature:     | -20°C to + 85°                       |
| Display:                 | LCD panel in 0.1° or 0.1% increments |
| Audible signal option:   | Repeating chimes at 0° and 90°       |
| Power:                   | 1 x 9V battery                       |
| Automatic switch-off:    | After 6 mins                         |

# YORK Survey Supply

## Digital Inclinator



**Code: 261640 - 261660**



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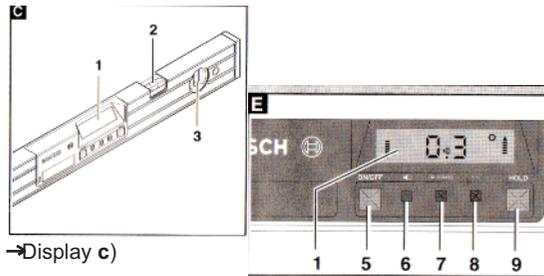
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## Operating Instructions

# Digital Inclinometer

## Operating Controls

1. LCD Display field
2. Bubble level for horizontal alignment
3. Bubble level for vertical alignment
4. Battery compartment
5. ON/OFF button
6. "Acoustical Signal" On/Off button ( →Display c)
7. CALIBRATE function button
8. Measuring unit selection button - Degree (°) / Percent (%) / inches per feet (IN/FT)  
(The displayed value is automatically converted when switched.)
9. HOLD button  
The current display is retained by pressing this button. (Alignment aids **a** and measurement unit **d** blink).  
A repeat pressing of the button **9** releases the display again.



## Display Elements

Depending on the position of the unit, the display turns accordingly so that it is always readable, e.g., when working overhead.

### a) Alignment aids

When aligning, the alignment aids indicate the direction of rotation (0° - 45° to the horizontal and 45° - 90° to the vertical). For 0° and 90° the arrows disappear.

### b) Weak battery symbol

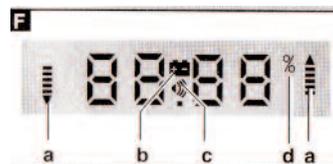
Warns that battery voltage is getting low. When the symbol " " appears, replace the battery (see the respective section).

### c) Acoustical signal On symbol

The signal sounds for 0° and 90° (see button 6)

### d) Measuring units of the display (°, %, IN/FT)

45° corresponds to 100% or 12 IN/FT.



## Initial Operation

Before using for the first time, connect the battery!

## Switching ON/OFF

Switching on: Press button **5**

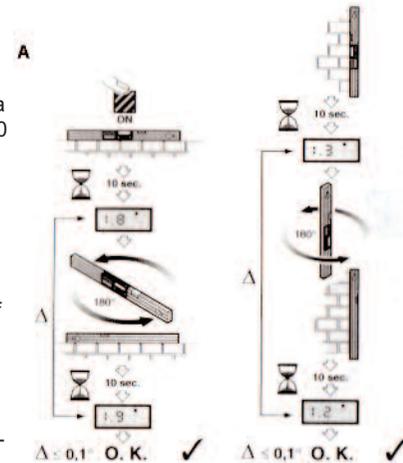
Switching off: Press button **5** again

After approximately 6 min. without activity, the unit switches off automatically.

## Calibration Test A

Before starting to work, after large temperature changes as well as a hard impact (e.g. when dropped), the accuracy of the unit should be checked: Switch on the unit and place on a surface that is as horizontal or as vertical as possible. Wait 10 second. Note the measured value, swing the unit around 180°, again wait 10 seconds and read the measured value. If the difference ( $\Delta$ ) is greater than 0.1° (0.2%), recalibrate the unit (see below).

**Note:** The calibration test can be performed in the horizontal position (normal or head position) or in the vertical position. If measurements are made primarily in one position, the calibration test should be performed in that position, that is, for horizontal measurements → calibration test in the horizontal position, for vertical measurements → calibration test in the vertical position. For alternating usage, always perform the calibration test in both positions.



## Calibration (CALIBRATE) B

If the calibration test indicates a difference of more than 0.1° (0.2%), a recalibration must be made.

The unit can be calibrated independently for vertical or horizontal usage. The procedure is the same as for the calibration test: Switch on the unit and place on a surface that is as horizontal or as vertical as possible. Wait 10 seconds. Press the "CALIBRATE" button **7** until **CAL1** appears in the display. Swing the unit around 180° again wait 10 seconds and press the "CALIBRATE" button **7** until **CAL2** appears in the display.

The unit can also be calibrated in the same manner in the horizontal or the vertical head position.

**Note:** When calibrating the inclinometer, the deviation from the vertical or horizontal must not exceed 5°. For larger deviations, the calibration cannot be performed and three dashes (- - -) appear in the display field.

