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S-Digit 60+ Inclinometer



Operating Instructions

Ref:.. \operat98\instructions 19\263070.qxp 07-01-19

Dear customer,

Thank you for your confidence in us having purchased a geo-FENNEL instrument. This manual will help you to operate the instrument appropriate

Please read the manual carefully - particularly the safety instructions. A proper use only guarantees a longtime and reliable operation

geo-FENNEL

Precision by tradition.

1. Supplied with

2. Features

3. Power supply

4. Keypad and display 5. Check and calibration

6. Safety notes

SUPPLIED WITH

. Electronic slope measurer S-Digit 60 +

· Padded bag

 Batteries User manual

FEATURES

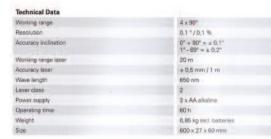
1. Laser emitting window

3. Display

5. 45°-vial

6. 90°-vial 7. Hook





POWER SUPPLY

Replace the batteries: Open the battery compartment cover and insert the batteries (ensure correct polarity)

When replacing the batteries always power off the instrument!

When the batteries have been replaced the instrument will power

Display indication: "GOOD, then "-0-"

Now a calibration must be made - see . Check and calibration'



If the battery symbol flashes the batteries need to be replaced.



KEYPAD AND DISPLAY



1) ON/OFF

Power on/off S-Digit 60 +.

21 LASER

Press the button short to switch on/off the laser beam.

3) CAL

Press the button long to activate the calibration procedure (see _Check and calibration").

4) MODE

ess the button short to select 5 different display modes (see chapter "Additional functions")

5) SOUND / ILLUMINATION

Press the button short to switch on/off the sound signal. Press the button long to switch or/off the illuminat

Press the button short to freeze the current reading.



Direction symbol (approching the 0°/90° position) Symbol sound on/off Battery status indicator Unit symbol N/FT Unit symbol °/%

Unit symbol mm/m

CHECK AND CALIBRATION

IMPORTANT

Calibration of inclinometer:

- before first use
- before important measurements
- after a hit or drop
- after a large fluctuation in temperature

CHECK OF CALIBRATION

Set the instrument down on a flat and even surface and switch it on. Wait 3 sec. and note down the measured value (A). Turn the unit by 180° and set it down on the same position as before. Wait 3 sec. and note down the measured value (B), If the deviation between the two values A and B is more than 0.2° the unit has to be calibrated.

CALIBRATION

Set the instrument down on the same flat and even surface, switch it on and keep the button CAL pressed until the display shows "-0-". Wait approx. 3 sec. and press the button CAL again until the display shows ...1-1 Turn the unit by 180° and set it down on the same position as before. Wait approx. 3 sec. and press the button CAL again until the display shows ,-2-". Now the calibration is completed

MEASUREMENT OF INCLINATION

The two arrows in the display indicate in which direction the instrument has to be moved in order to reach the 0° or 90° position



The exact 0° or 90° position is shown by double arrows.



The display has an automatic digit inversion for overhead measurements



ADDITIONAL FUNCTIONS

Automatic shut-off

If no button is used for 20 min, the instrument will power off automatically,

Switch the sound function on. The instrument will now show by a sound signal if the horizontal or vertical position approaches. The closer the position is the denser the sound signal will be. If the instrument is in correct vertical or horizontal position the sound will be continuous,

Mode functions [1) - 5)]

- 1) Slope indication in * (14,5°)
- 2) Slope indicaton in % (25,9 %) 3) Indication IN/FT (3 1/8 IN/FT)

- 5) Indication mm/m (258.9 mm/m)

Keep the mode button pressed to have all mode functions switch fast. The display will not show any values. Release the mode button to return to the standard indication.

CONNECTION TO CAMERA TRIPOD

With 1/4"-thread (at the bottom side) S-Digit 60 + can be connected to a carriera tripod.

SPECIAL FEATURE WITHIN THE RANGE OF 0° - 90°

O-setting in any position required:

In the range between 0° and 90° the ZERO layer can be defined in any position.

Start the calibration function in the position required (press CAL longer than 3 sec.) wait 3 sec. - press CAL again - wait 3 sec. - press CAL again - finalized Do not turn the S-Digit 60 + during this process.

Now the ZERO layer is defined in the new position and the application required can be started.

ATTENTION:

We recommend to define the ZERO layer in the horizontal position again when you have finished your application. Otherwise it may happen that for the following measurements the results can be complete ly wrong (e.g. when you work the next day or if another user is working with the unit).

SAFETY NOTES

SPECIFIC REASONS FOR ERRONEOUS MEASURING RESULTS

Measurements through glass or plastic windows; sirty laser emitting windows; after the instrument has been dropped or htt. Please diesk the accuracy. Large fluctuation of temperature: If the instrument will be used in cold areas after it has been stored in warm areas for

the other way round) please wait some minutes before carrying out measurements

CARE AND CLEANING

Handle measuring instruments with care. Clean with soft cloth only after any use. If necessary damp the cloth with some water. If the instrument is wet clean and dry it carefully. Pack it up only if it is perfectly dry. Transport in original

ELECTROMAGNETIC ACCEPTABILITY (EMC)

It cannot be completely excluded that this instrument will disturb other instruments leign mavigation systems); will be disturbed by other instruments (e.g. intensive electromagnetic radiation nearby industrial facilities or radio trans-

CE-CONFORMITY

The instrument has the CE-mark according to EN 61326 1997, EN 55022, EN 61000-4-2/-3.

This product is warranted by the manufacturer to the original purchaser to be free from defects in material and workmanship under normal use for a period of two (2) years from the date of purchase. During the warranty period, working and port porter to the set person in very system and the date of personals. Court working working and upon port of purchase, the prosists will be repeated or replaced that the same or smillar model at manufacturers option, without datage for either parts or labour, in case of a defect prosee contact the dealer where you originally purchased this product. The warmany will not apply to this product if the same working will not apply to this product if this seems will be abused or attender Without limiting the foregoing, leakage of the bettery, bending or diopping the unit are presumed to be delects resulting from

EXCEPTIONS FROM RESPONSIBILITY

- The user of this product is expected to follow the instructions given in the user manual. Although all instruments left our warehouse in perfect condition and adjustment the user is expected to carry out periodic checks of the product's accuracy and general performance.
- The manufacturer, or its representatives assumes no responsibility of results of a faulty or intentional usage or misuse including any direct, indirect, consequential damage, and loss of profits.
- The manufacturer, or its representatives, assumes no responsibility for consequential damage, and loss of profits by any disaster (earthquake, storm, flood etc.), fire, accident, or an act of a third party and/or a usage in oth
- The manufacturer, or its representatives, assumes no responsibility for any damage, and loss of profits due to
- by usage other than explained in the user 'manual.' The manufacturer, or its apresentatives, assumes no responsibility for damage caused by wrong movement or action due to connecting with other products:

INTENDED USE OF INSTRUMENT

The instrument emits a visible laser beam in order to carry out the following measuring tasks idepending on instrument): Setting up heights, horizontal and vertical planes, right angles

SAFETY INSTRUCTIONS

- Follow up the instructions given in the user manual.
- Do not stare into the beam. The laser beam can lead to eye injury. A direct look into the beam leven from greater distance) can cause damage to your eyes.

 Do not aim the laser beam at persons or animals
- The laser plane should be set up above the eye level of persons.
- Use the instrument for measuring jobs only. Do not open the instrument housing. Repairs should be carried out by authorized workshops only. Please contact your local dealer.
- Do not remove warning labels or safety instructions Keep the instrument away from children.
- Do not use the instrument in explosive environment. The user manual must always be kept with the instrument,

LASER CLASSIFICATION

The instrument is a laser class 2 laser product according to DIN EN 60825-1:2008-05. It is allowed to use the unit without further safety precautions

The eye protection is normally secured by the aversion responses and the blink reflex.

The laser instrument is marked with class 2 warning labels.



If you return instruments for repair / for adjustment to us please disconnect batteries or rechargeable batteries from the instrument - this is for safety reasons!

NOTES

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