

Dear customer,

Thank you for your confidence having purchased a *geo-FENNEL* instrument of „*Selection Pro*“ series. This high-quality product was produced and tested with due prudence.

Among others „*Selection Pro*“ is defined by even clearer visible lines which you are originally used to from our standard range of instruments.

This manual will help you to operate the instrument appropriately. Please read carefully - particularly the safety instructions. A proper use guarantees a longtime and reliable operation.

geo-FENNEL
Precision by tradition.

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A SUPPLIED WITH

- FL 40-PowerCross Plus SP / FLG 40-PowerCross GREEN Plus SP
- 4 x AA Alkaline batteries
- Multi-functional mount
- Padded bag
- User manual

Technical Specifications

Self-levelling range	± 3°
Levelling accuracy	± 3 mm / 10 m
Working range	
<ul style="list-style-type: none"> • without receiver 	30 m* (radius)
<ul style="list-style-type: none"> • with receiver (optional) 	80 m (radius)
Fan angle horizontal	135°
Fan angle vertical	150°
Power supply (all lines illuminated)	4 x AA Alkaline batteries
Operating time	20h
Dust / water protection	IP 54
Laser class	2
Temperature range	-10°C to +45°C
Weight (instrument with battery)	0,4 kg

Divergent technical data

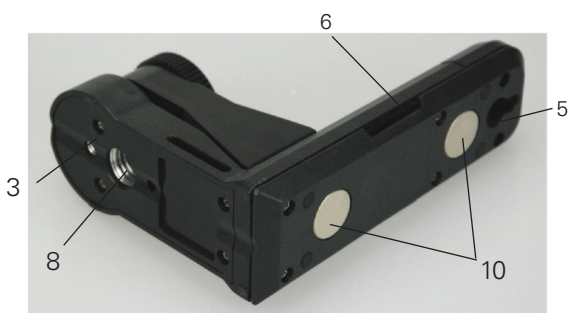
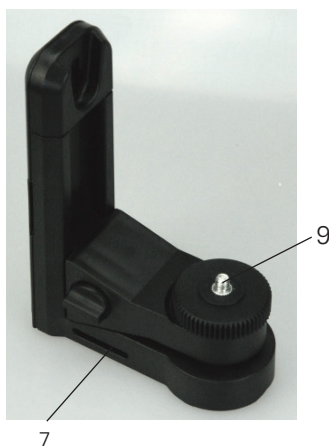
FLG 40-PowerCross GREEN Plus SP

Working range	
<ul style="list-style-type: none"> • w/o receiver 	40 m* (radius)
<ul style="list-style-type: none"> • with receiver (optional) 	100 m (radius)
Operating time (all lines illuminated)	9h

*depends on room illumination

B OPERATIONAL ELEMENTS

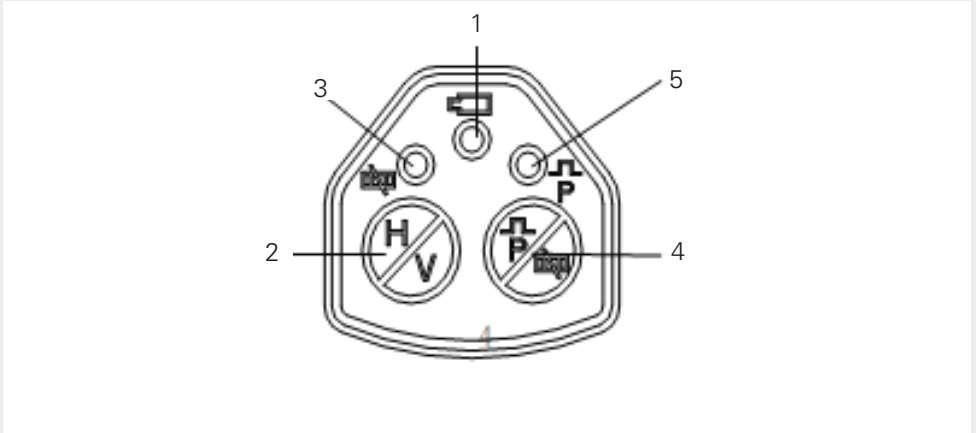
- 1. Keypad
- 2. Laser emitting windows
- 3. 1/4" thread for tripod
- 4. Battery case
- 5. Hanging hole
- 6. Belt slot
- 7. Interlock for height adjustment of elevator table
- 8. 5/8" thread for tripod
- 9. 1/4" adapter
- 10. Magnets
- 11. ON/OFF knob / transport lock



KEYPAD

C

1. ON/OFF LED instrument
2. ON/OFF vertical laser line V / horizontal laser line H
3. MANUAL LED
4. ON/OFF MANUAL function / receiver function
5. LED receiver function



POWER SUPPLY

D

Insert 4 x AA Alkaline batteries into the battery case (4) (take care to correct polarity) and close battery compartment.



E OPERATION

Fix the instrument on the multi-functional mount by using the 1/4" adapter.

To move the instrument up or down on the mount declamp the knob (7). For locking the desired position of the instrument tighten the knob again.

- Use of the laser on a tripod.
- Use of the laser with the magnets.
- Use of the laser with strap attachment.

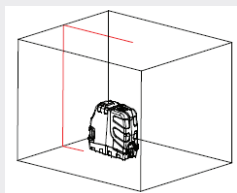
Set the ON/OFF knob to position „ON“. The instrument is now ready for use (ON/OFF LED is illuminated). An audible and optical (blinking lines) alarm indicates if the instrument was set up outside of the compensator range. Set up the instrument on a more even surface.



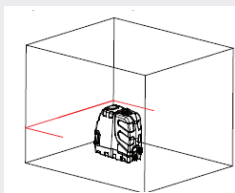
To power off the instrument bring the ON/OFF knob in position „OFF“. The instrument is now powered off and the compensator is blocked to avoid damages during transport.

NOTE: During transport the ON/OFF knob (compensator clamp) must be set to „OFF“. Disregard may lead to damages of the compensator.

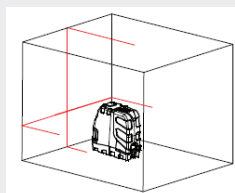
FOLLOWING LASER LINES CAN BE PROJECTED



H



V

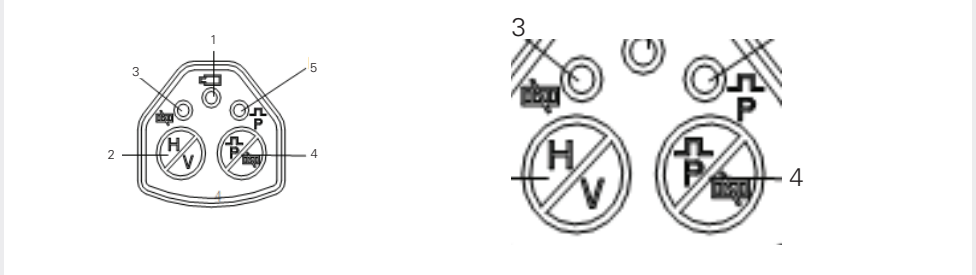


H V

MANUAL FUNCTION)

The instrument is power off (OFF position).

Press the button MANUAL FUNCTION (4) to enter into the MANUAL function. The MANUAL LED (3) is illuminated. Now the required laser lines can be switched and the instrument can be used in slope position.



USE WITH RECEIVER

To extend the working range or for use in unfavourable light conditions the Laser can be used with receivers FR 75-MM, FR 55 or FR 55-M.

The receivers are optional.

Press button (4) (pulse mode LED (5) will illuminate) to change from normal to receiver mode. The receiver can now detect the laser lines (the visibility of the laser lines are weaker in this mode).

By using a receiver the working range can be extended up to 80 m / 100 m. You will find more detailed information in the receiver user manual.



F SAFETY NOTES

INTENDED USE OF INSTRUMENT

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

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 container / case only.

SPECIFIC REASONS FOR ERRONEOUS MEASURING RESULTS

Measurements through glass or plastic windows; dirty laser emitting windows; after the instrument has been dropped or hit. Please check the accuracy.

Large fluctuation of temperature: If the instrument will be used in cold areas after it has been stored in warm areas (or the other way round) please wait some minutes before carrying out measurements.

ELECTROMAGNETIC ACCEPTABILITY (EMC)

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

CE-CONFORMITY

This instrument has the CE mark according to EN 61010-1:2010.

WARRANTY

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, and upon proof of purchase, the product will be repaired or replaced (with the same or similar model at manufacturers option), without charge for either parts or labour. In case of a defect please contact the dealer where you originally purchased this product. The warranty will not apply to this product if it has been misused, abused or altered. Without limiting the foregoing, leakage of the battery, bending or dropping the unit are presumed to be defects resulting from misuse or abuse.

EXCEPTIONS FROM RESPONSIBILITY

1. 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.
2. 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.
3. 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 other than usual conditions.
4. The manufacturer, or its representatives, assumes no responsibility for any damage, and loss of profits due to a change of data, loss of data and interruption of business etc., caused by using the product or an unusable product.
5. The manufacturer, or its representatives, assumes no responsibility for any damage, and loss of profits caused by usage other than explained in the user manual.
6. The manufacturer, or its representatives, assumes no responsibility for damage caused by wrong movement or action due to connecting with other products.

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 (even 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.

LASER CLASSIFICATION

The instrument is a laser class 2 laser product according to DIN IEC 60825-1:2014.

It is allowed to use the unit without further safety precautions. The eye protection is normally secured by aversion responses and the blink reflex.

The laser instrument is marked with class 2 warning labels.

