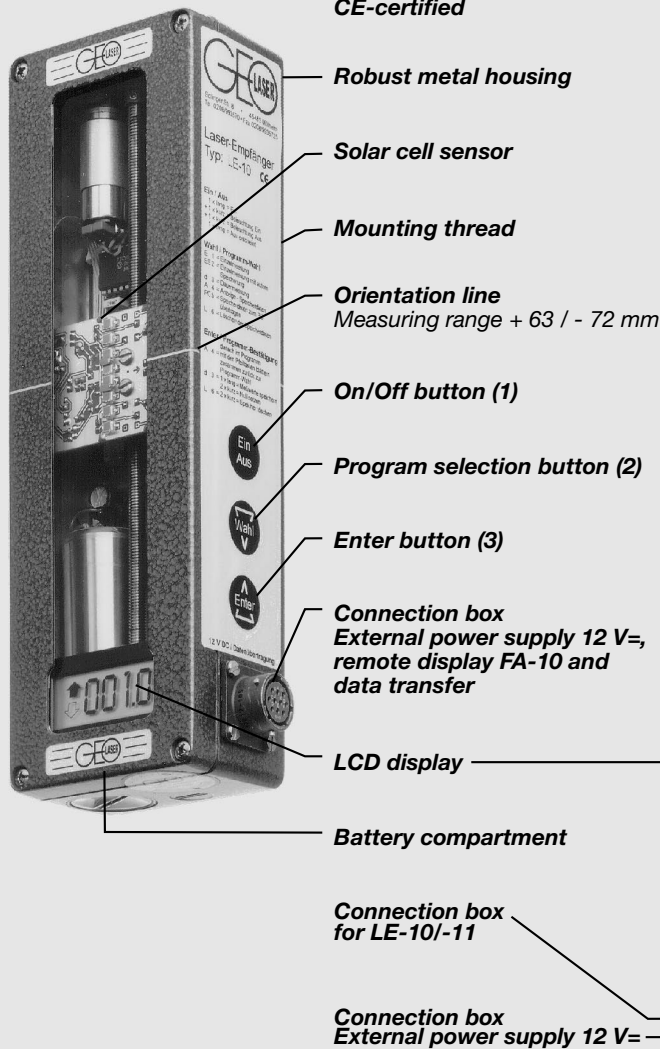


Automatic Laser Receiver LE-10/-11



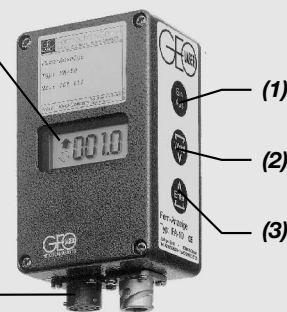
Laser receiver LE-10/-11



Features

- Measuring range 135 mm
- Scan function
- Data averaging
- Zero point adjustment
- RS-232 interface via adapter
- Data display
Digital resolution 0.1 mm
- Memory
for 1000 measured values
- Program selection
 E 1 = Single measurement
 ES 2 = Single measurement
 with auto saving
 d 3 = Continuous
 measurement
 A 4 = Display memory data
 PC 5 = Transfer memory data
 to PC
 L 6 = Delete memory data

Remote display FA-10



Functional description

Laser receiver LE-10, for rotating laser beam. Laser receiver LE-11, for stationary laser beam.

The LE-10/-11 is equipped with a sensor, which scans the measuring range of 135 mm to find the laser beam/light plane automatically. The position it finds is then shown on an LCD display digitally in mm.

The zero point can be adjusted across the complete measuring range. It is therefore also possible to measure + or - and ± values. Positive values are shown without preceding sign. Accidental adjustment of the zero point is not possible.

Thanks to multiple measurements in combination with data averaging, the LE-10/-11 attains a very

high degree of accuracy. The resolution is 0.1 mm. It is possible to choose between single and continuous measurement.

The end of a single measurement is indicated by a beep. The LE-10/-11 is then switched off automatically to save power. The measured value, however, remains visible for another 5 seconds.

The program "Continuous Measurement" is used to measure objects that are in motion. This is necessary, for example, for monitoring of building structures. During continuous measurement, the sensor tracks the changes automatically. If the sensor does not receive a signal, it automatically returns to start position after a search. The receiver is then switched off.

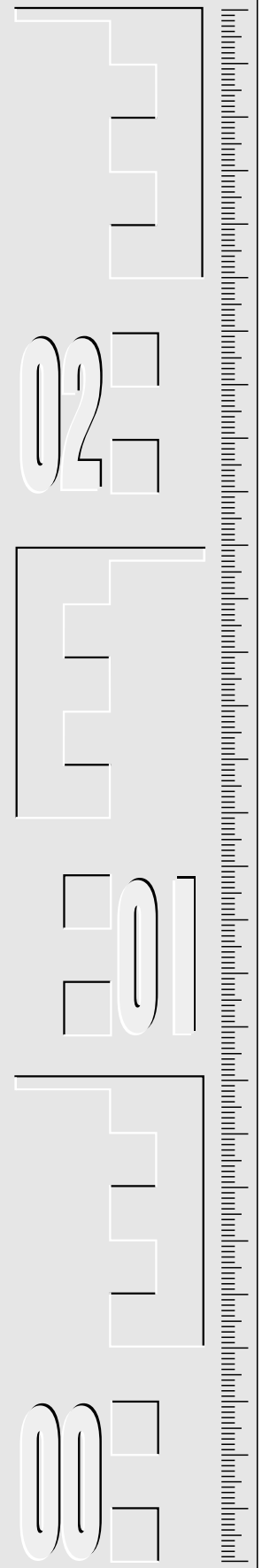
In certain situations it can be ad-

vantageous to separate the receiver and display units. This is made possible by the remote display FA-10.

The measured data is registered in an internal data memory. It can be transferred to a PC via an adapter cable with RS-232 serial interface.

For continuous monitoring purposes, several receivers can be connected to each other via the PC adapter box or VLE-10 distributor and monitored from a PC.

The concept behind the laser receiver makes a wide variety of applications possible.



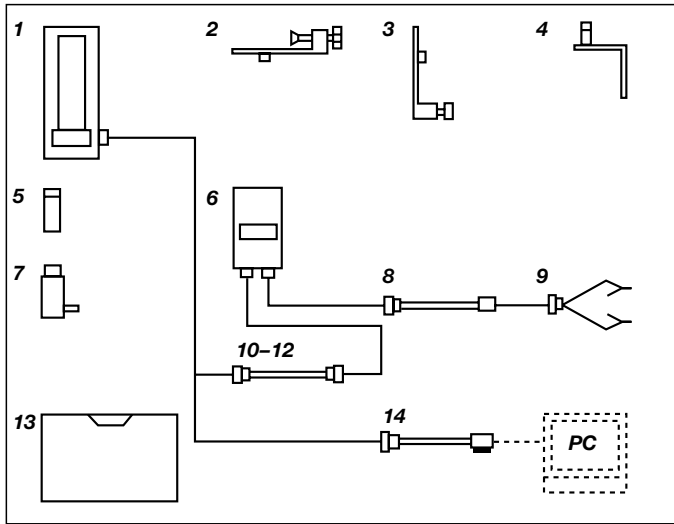
Simple operation

1. Insert battery, paying attention to + and - poles.
Warning: Remove the battery after use or when using an external power supply.
2. Switch on: Press the **ON** button for a long time.
3. Light: Press the **ON** button briefly alternately.
4. Select the mode of measurement (program) with the **SELECT** button:

Prog.	Display	Function
1	E 1	= Single measurement without saving After the beep: Press Enter twice briefly: Reset zero point.
2	ES 2	= Single measurement with auto saving of data
3	d 3	= Continuous measurement In continuous measurement mode: Press Enter once for a long time: Save data Press Enter twice briefly: Reset zero point. Reset zero point.
4	A 4	= Display memory data After confirming with Enter: Page up and down through the data with the arrow buttons (Select / Enter). Return to program selection mode by pressing the arrow buttons (Select / Enter) simultaneously.
5	PC 5	= Transfer memory data to PC Connect the receiver to a PC. The data transfer program in the PC must be running.
6	L 6	= Delete memory data Press Enter twice briefly (Display Clr).

Then confirm the program selection with the Enter button.
Switching off the receiver does not change the program selection.
Warning: If the LE-10 is in display mode A 4 after switching on, you must return to program selection mode by pressing the arrow buttons (Select / Enter) simultaneously.

5. Switch off: Press **OFF** button for a long time.



No.	Description	X = in delivery package O = optional
1	Automatic laser receiver LE-10/-11	X
2	Rod clamp for laser receiver	X
3	Mounting adapter for laser receiver	O
4	Wall mounting bracket for laser receiver, aluminium	O
5	2.4 V rechargeable battery	X
6	Remote display FA-10	O
7	Battery charger LG-10 for 2.4 V rechargeable battery	X
8	Connection cable, 2.5 m	O
9	Rechargeable battery connection C	O
10	Connection cable, 10 m, LE-10/-11 <> FA-10	O
11	Connection cable, 25 m, LE-10/-11 <> FA-10	O
12	Connection cable, 100 m, LE-10/-11 <> FA-10	O
13	Transport case for laser receiver	X
14	PC adapter cable, 2.5 m, LE-10/-11 <> PC	O

Outstanding technical specifications

Laser receiver LE-10, for rotating laser beam

Reception: laser (633–815 nm homogenous beam profile)
Ø 7–35 mm, 0.5–2 mW, 300–800 rpm
Reception range: 0.5–250 m, depending on type of laser

Laser receiver LE-11, for stationary laser beam

Reception: GEO diode laser from model year 1998 /
certain GEO He/Ne lasers Ø 7–20 mm, 0.5–2 mW
Reception range: 0.5 - 150 m, depending on type of laser

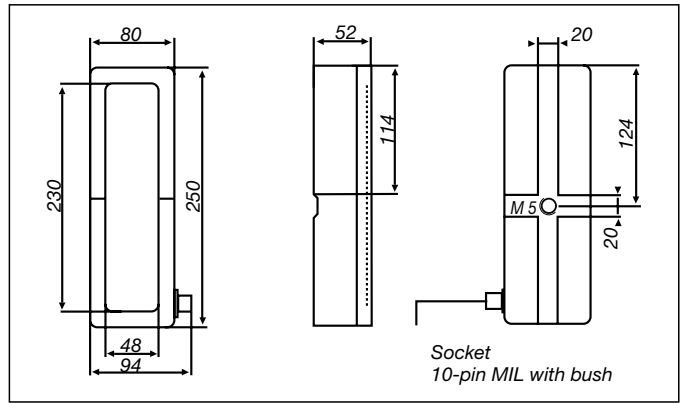
Measuring accuracy: < 0.5%, ± 1 digit
Data display: digital in mm
Data memory: 1000 values
Output: adapter cable with RS-232 serial interface
Resolution: 0.1 mm
Measuring range: 135 mm
Zero point adjustment: 0 – 135 mm
Indication of reception: by arrow symbols
Sunlight: no influence
Distance to fluorescent lamps and high-voltage cables ≥ 1.5 m
Housing: watertight
Dimensions: 52 x 94 x 250 mm
Weight: 1.2 kg
External power supply: 12–18 V DC / 0.35 A max.
Internal battery: 2.4 V / 1.1 Ah / Ø 26.7 x 64 mm
One battery charge suffices: for approx. 600 measurements

Remote display FA-10

Power supply: external 12 V DC or LE-10/-11
Data display: digital in mm
Indication of reception: by arrow symbols
Housing: watertight
Dimensions: 52 x 94 x 140 mm
Weight: 0.6 kg

Battery charger LG-10

Mains power: 230 V / 50 Hz / 14.5 W
Charge display: LED
Charging time: approx. 1¼ hours
Dimensions: 125 x 80 x 90 mm
Weight: 0.50 kg



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