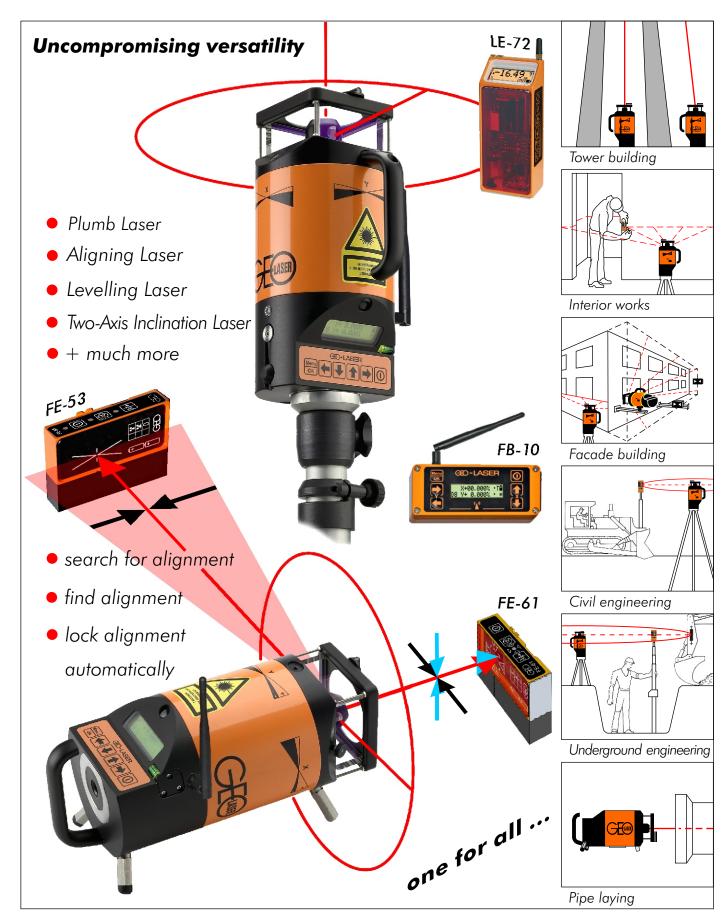
# Automatic Universal-Laser UL-89L







# Automatic Universal Laser UL-89L Technical specifications

# Versatile use - simpliest operation

is a multifunction laser with inclination setting for horizontal and vertical use capable of electronic self-levelling over three axes. It emits a laser beam, which turns into a light plane as it rotates. Another laser beam is available exactly square to it.











# **Big on performance:**

#### Fully automatic

Automatic levelling, locking of the Y-axis, inclination zeroing, direction centring and cut-out in case of undervoltage or jerky movements.

## Robust metal housing

Anodised, plastic-coated, filled with nitrogen, 100% watertight.

## Automatic fixing of the laser light plane

Laser and receiver correspond via radio circuit. By pressing the corresponding button at laser or at receiver the laser starts to search for the receiver. As soon as the rotating laser beam hits the receiver, it is directed to the centre and fixed there. Accuracy: to  $\pm$  1 mm/100 m.

#### Inclination measurement parallel to ground

Even if the inclination is not known, it simply can be adapted to the ground in the Y-axis with the FE-53.

Automatic fixing of the plumb beam

As soon as the laser beam hits the locking receiver FE-61, it is automatically directed to the position fixed before. Deviations are detected and corrected immediately. Accuracy up to  $\pm$  1 mm/100 m. Operation is possible horizontal, vertical, in alignment, with every inclination and even on swaying platforms.

#### Increased safety

Control lamp with blinking warning system for levelling, operating status and undervoltage. Automatic laser cut-out in case of jerky movement (bumps). Inclination, direction and rotational speed setting protected against change.

To protect against theft, the name of the owner can be saved in the device.

#### Laser beam

Diode laser with visible beam, high life expectancy and low power consumption.

#### Manual rotor adjustment

Easy operation for exact positioning of the laser beam, rotor fixing and plumbing down with bubble level in rotor head.

#### Lithium ion rechargeable battery

Operation time to 27 hours with one charge.

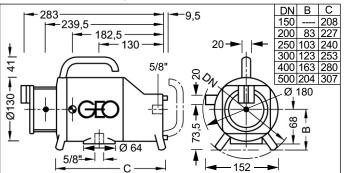
#### Wireless control FB-10 (optional)

Complete laser operation up to a distance of 250 m.

#### Reliable system accessories

for the best possible operation.

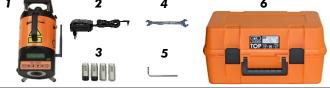
## **Dimensional drawing**



	ser class/Laser type: 3R, < 5 mW/diode, visible red, 635 nm nge depending on circumstances and receiver: to 250 m, Ø 500 m
Inc Inc Inc	lination range:
Per	ading precision:
	cking automatic laser light plane: up to 200 m with receiver FE-53 cking automatic plumb beam: up to 100 m with receiver FE-61
Ext	perating time with 7.4 V DC Li lon recharg. battery: to 27 hours ernal power supply:
Wo Ter Dir	stertight:

#### Standard delivery package

	orania a a constant paramage						
No.	Order No.	Туре	Description				
01	0001.295	UL-89L	Universal laser				
02	0037.18	NE-80	Power supply/Battery charger				
03	0019.07		Leg set DN 200 (2 x sliding leg/ 2 x fixing leg)				
04	0077.36.002		Double headed wrench 10/13				
05	0077.36.003		hexagon key SW 4				
06	0077.36		Transport case				
1-6	0001.295.1		UL-89L with standard delivery package				
7		2	1 4				



# Pipe laser, optional accessories

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No.	Order No.	Туре	Description			
01	0016.07	KL-04	Target frame			
02	0016.07.002		Plexi target DN 150 - 300			
03	0016.07.003		Plexi target DN 400 - 500			
04	0019.08		Leg set DN 250 (2 x sliding leg/ 2 x fixing leg)			
05	0019.09		Leg set DN 300 (2 x sliding leg/ 2 x fixing leg)			
06	0019.10		Leg set DN 400 (2 x sliding leg/ 2 x fixing leg)			
07	0019.11		Leg set DN 500 (2 x sliding leg/ 2 x fixing leg)			
80	0019.90		Leg adapter for mounting with 3 legs			
1-8	0127.01.1	KL-AU	Pipe laying equipment for UL-89L			
1	2	3	4 5 6 7 mmm 8			
6	b					
HIE .	LED		assa IIIII			

#### Rotary laser, optional accessories

Rolary rasely optional accessories								
09	1035.29		Lightning 2 laser receiver					
10	1035.27	Storm	Laser receiver with digital data display					
11	0009.39.1	LE-72	Laser receiver with digital data display					
12	0009.36.1	FE-53	Locking receiver for laser light plane					
13	0009.70.1	FE-61	Locking receiver for plumb beam					
14	0026.07	FB-10	Two-way radio control					
15	0045.04	DS-80	Rotation axis					
9	10	11.	12 13 14 15					
			B Harmon H H H H H H H H H H H H H H H H H H H					

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