



GLM Professional

50-27 CG | 50-27 C

Robert Bosch Power Tools GmbH
70538 Stuttgart • GERMANY

www.bosch-professional.com

1 609 92A 8LH (2024.03) 0 / 499



1 609 92A 8LH



Online
operating instructions

de Originalbetriebsanleitung
en Original instructions
fr Notice originale
es Manual original
pt Manual original
it Istruzioni originali
da Oorspronkelige bruksaanwijzing
sv Bruksanvisning i original
no Original driftsinstruks
fi Alkuperäiset ohjeet
el Πρωτότυπο οδηγών χρήσης
tr Orijinal işletme talimatı
pl Instrukcja oryginalna
cs Původní návod k používání
sk Pôvodný návod na použitie
hu Eredeti használati utasítás
ru Оригинальное руководство по эксплуатации

uk Оригінальна інструкція з експлуатації
kk Пайдалану нұсқаулығының түпнұсқасы
ka ორიგინალი ექსპლუატაციის ინსტრუქცია
ro Instrucțiuni originale
bg Оригинална инструкция
mk Оригиналното упатство за работа
sr Originalno uputstvo za rad
sl Izvirna navodila
hr Originalne upute za rad
et Algupärane kasutusjuhend
lv Instrukcijas oriģinālvalodā
lt Originali instrukcija
ar دليل التشغيل الأصلي
fa دفترچه راهنمای اصلی



The measuring results can be transferred to other devices via *Bluetooth®*.

Product Features

The numbering of the product features refers to the representation of the measuring tool in the images.

- (1)  *Bluetooth®* button
- (2)  Function button
- (3)  Minus button
- (4) Display
- (5)  Measuring button
- (6)  Plus button
- (7)  Basic settings button
- (8)  On/off/back button
- (9) Carrying strap mount
- (10) Laser warning label
- (11) Serial number
- (12) Battery compartment cover locking mechanism
- (13) Battery compartment cover
- (14) 1/4" tripod thread
- (15) Reception lens
- (16) Laser beam output
- (17) Carrying strap^{A)}
- (18) Protective bag
- (19) Li-ion battery pack^{A)}
- (20) Locking mechanism of the Li-ion battery pack^{A)}
- (21) USB Type-C® cable^{A)B)}

(22) Flap for USB port^{A)}

A) **Accessories shown or described are not included with the product as standard. You can find the complete selection of accessories in our accessories range.**

B) USB Type-C® and USB-C® are trademarks of USB Implementers Forum.

Display Elements

- (a)** Reference level of measurement
- (b)** *Bluetooth®* status
 - * *Bluetooth®* activated, connection not established
 - *• *Bluetooth®* activated, connection established
- (c)** Battery indicator
- (d)** Measured value lines
- (e)** Result line
- (f)** Measuring function display
- (g)** Slope angle display
- (h)** Status bar
- (i)** Functions menu
- (j)** Basic settings menu
- (k)** Further basic settings menu

Technical data

Digital laser measure	GLM 50-27 CG	GLM 50-27 C
Article number	3 601 K72 U..	3 601 K72 T..
Measuring range ^{A)}	0.05–50 m	0.05–50 m
Measuring range (unfavourable conditions) ^{B)}	0.05–20 m	0.05–20 m
Measuring accuracy ^{A)}	±1.5 mm	±1.5 mm
Measuring accuracy (unfavourable conditions) ^{B)}	±3.0 mm	±3.0 mm
Smallest display unit	0.5 mm	0.5 mm

Digital laser measure	GLM 50-27 CG	GLM 50-27 C
General		
Operating temperature ^{c)}	-10 °C to +45 °C	-10 °C to +45 °C
Storage temperature	-20 °C to +70 °C	-20 °C to +70 °C
Relative air humidity max.	90 %	90 %
Max. altitude	2000 m	2000 m
Pollution degree according to IEC 61010-1	2 ^{d)}	2 ^{d)}
Laser class	2	2
Laser type	515 nm, < 1 mW	635 nm, < 1 mW
Divergence of the laser beam	< 1.5 mrad (full angle)	< 1.5 mrad (full angle)
Automatic switch-off after approx.		
- Laser	20 s	20 s
- Measuring tool (without measurement) ^{e)}	5 min	5 min
Batteries	2 × 1.5 V LR6 (AA)	2 × 1.5 V LR6 (AA)
Battery pack (accessory)	Li-ion	Li-ion
Type	BA 3.7V 1.0Ah A	BA 3.7V 1.0Ah A
Article number	1 607 A35 0N8	1 607 A35 0N8
USB charging connection	Type-C®	Type-C®
Recommended USB Type-C® cable	1 600 A01 6A8	1 600 A01 6A8
Rated voltage	3.7 V ---	3.7 V ---
Capacity	1.0 Ah	1.0 Ah
Number of battery cells	1	1
Permitted charging temperature range	+10 °C to +35 °C	+10 °C to +35 °C
Power supply		
Output voltage	5.0 V ---	5.0 V ---
Min. output current	500 mA	500 mA
Recommended power supply ^{f)}	2 609 120 713 (EU) 2 609 120 718 (UK)	2 609 120 713 (EU) 2 609 120 718 (UK)

Digital laser measure	GLM 50-27 CG	GLM 50-27 C
	1 600 A01 3A0 (ARG)	1 600 A01 3A0 (ARG)
	1 600 A01 3A1 (MEX)	1 600 A01 3A1 (MEX)
	1 600 A01 3A2 (BRL)	1 600 A01 3A2 (BRL)
Data transmission		
<i>Bluetooth®</i>	<i>Bluetooth® 4.2 (Low Energy)⁽⁶⁾</i>	<i>Bluetooth® 4.2 (Low Energy)⁽⁶⁾</i>
Operating frequency range	2402–2480 MHz	2402–2480 MHz
Max. transmission power	8 mW	8 mW

- A) When measuring from the front edge of the measuring tool, this applies for high reflectivity of the target (e.g. a wall painted white), weak background lighting and a 20 °C operating temperature; a distance-dependent deviation of ± 0.05 mm/m must additionally be factored in.
- B) When measuring from the front edge of the measuring tool, this applies for high reflectivity of the target (e.g. a wall painted white), strong background lighting, a 20 °C operating temperature and high elevation; a distance-dependent deviation of ± 0.15 mm/m must additionally be factored in.
- C) In continuous measurement mode, the max. operating temperature is +40 °C.
- D) Only non-conductive deposits occur, whereby occasional temporary conductivity caused by condensation is expected.
- E) *Bluetooth®* deactivated
- F) For additional technical data, visit: <https://www.bosch-professional.com/ecodesign>
- G) When using *Bluetooth®* Low Energy devices, it may not be possible to establish a connection depending on the model and operating system. *Bluetooth®* tools must support the GATT profile.

The serial number (11) on the type plate is used to clearly identify your measuring tool.

Inserting/Changing the Battery

-  Always replace all the batteries/rechargeable batteries at the same time. Only use batteries/rechargeable batteries from the same manufacturer and which have the same capacity.
-  When inserting the batteries, ensure that the polarity is correct according to the illustration on the inside of the battery compartment.
- **Take the batteries out of the measuring tool when you are not using it for a prolonged period of time.** The batteries can corrode and self-discharge during prolonged storage.
-  Never store the measuring tool without an inserted battery compartment cover (13) or lithium-ion battery pack (19) (accessory), particularly in dusty or humid environments.