

GM-50 SERIES REFLECTORLESS TOTAL STATIONS



GM-50 SERIES



Reflectorless Total Stations

- Fast and accurate new EDM
- Bluetooth® communications (optional)
- Advanced angle accuracy
- Long battery life 14 hours
- Rugged, waterproof design with IP66 rating
- 500 m long-range reflectorless measurement
- 50,000 point internal memory

Topcon GM-50 Series total stations – advanced design with superior technology

The GM-50 Series was designed from the ground up to deliver the very latest technological advantages, all in a small, sleek design – you'll appreciate the advantages from the very first measurement.

Featuring a class leading EDM unit, the GM-50 is able to measure up to 4,000 m to standard prisms, and can measure in reflectorless mode up to 500 m at an incredible 2 mm + 2 ppm accuracy.

Measurements are captured faster than ever, and with a beam width of 13 mm (at 30 m), the bright red laser dot pinpoints features with ease.

Versatile, Economical Solution

The GM-50 Series is smaller, lighter, with increased storage capacity. Offered at an even more cost-efficient option than previous models, it provides your customers the perfect tool for entry-level site layout and surveying.

Bluetooth® Communication

With integrated Bluetooth[®] capability and internal antenna, the sleek design enables you to deliver measurements cable-free to your data controller.



Tested for toughness

We perform the tough environmental tests to ensure long-term operation even under the rough site environments. GM Series total stations are thoroughly inspected with dust-proof and water-proof test chambers. In addition, the various tests against vibration, drop, temperature, and humidity were successfully passed to achieve the best environmental spec. The measuring distance accuracy test on base line and the instrument leveling and angle accuracy test and adjustment by collimator system ensure your satisfaction on GM Series product quality.





Angle Measurem	ent
Min. Resolution/ Accuracy	2"/5"
Min. Display	1"/5" (0.0002 / 0.001gon, 0.005 / 0.02 mil)
Dual-axis compensator /	Dual-axis liquid tilt sensor working range: ±6'
Collimation compensation	On/Off (selectable)
Distance Measu	rement
Prism EDM Range	4,000 m
Prism EDM Accuracy	2 mm + 2 ppm
Non-Prism Range	500 m
Non-Prism Accuracy	3 mm + 5 ppm (0.3 - 500 m)
Measuring Time	Fine: 0.9 sec Rapid: 0.6 sec Tracking: 0.4 sec
Communications	;
Bluetooth Class 1.5, 10m	Operating range: up to
USB flash memory (r	max. 32GB)
Serial RS-232C, USB (Type A for USB flash	
General	
Display	Graphic LCD, 192 x 80 dots, backlight : on/off (Selectable) / Alphanumeric keyboarc / 28 keys with backlight
Battery Operation	Up to 14 hours
Battery Operation Dust/Water Rating	Up to 14 hours IP66



Ultra-powerful, advanced EDM

- 500 m non-prism range
- 4,000 m prism range
- Coaxial red laser pointer
- Pinpoint, precise beamspot

Easy access USB 2.0 memory

- Up to 32GB storage
- Environmentally protected
- Compatible with industry standard thumb drives

Advanced angle encoder system

- 2" or 5" angle accuracy
- Incorporates exclusive IACS (Independent Angle Calibration System) on 2" and 5" models



Rugged, waterproof design

- Waterproof/dustproof IP66 design handles the toughest environments
- Magnesium-alloy housing providing stable angle accuracy
- Graphic display and alphanumeric key board (standard)



For more information: topconpositioning.com/gm-series

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