

Model		GM-101	GM-102	GM-103	GM-105
		GM-101	GM-102	GM-103	GM-105
Telescope			20	/ 2 ["	
Magnification / Resolving power Others		30x / 2.5"			
		Length: 171mm (6.7in.), Objective aperture: 45mm (1.8in.) (48mm (1.9in.) for			
		EDM), Image: Erect, Field of view: 1°30' (26m/1,000m), Minimum focus: 1.3m (4.3ft.			
		Reticle illumination: 5 brightness levels			
Angle measurement					
Minimum Display		0.5"/1"		1"/5"	
		(0.0001 / 0.0002gon,			
		0.002 / 0.005mil)			
Accuracy (ISO 17123-3:2001)		1" 2" 3" 5"			
Dual-axis compensator /		Dual-axis liquid tilt sensor, working range: ±6'			
Collimation compensation		On/Off (selectable)			
Distance measurement					
Laser output*1		Reflectorless mode : Class 3R / Prism/sheet mode : Class 1			
Measuring range	Reflectorless*3	0.3 to 800m (2,620ft.) / Under good conditions*4 : 1,000m (3,280ft.)			
(under average condi-	Reflective sheet*5*6	RS90N-K: 1.3 to 500m (4.3 to 1,640ft.), RS50N-K: 1.3 to 300m (4.3 to 980ft.),			
tions*2)		RS10N-K: 1.3 to 100m (4.3 to 320ft.)			
	Mini prism	1.3 to 500m (4.3 to 1,640ft.)			
1	One prism	1.3 to 5,000m (4.3 to 16,400ft) / Under good conditions*4 : 6,000m (19,680ft.)			
Minimum Display		Fine / Rapid : 0.0001m (0.001ft. / 1/16 in.) / 0.001m (0.005ft. / 1/8 in.) (selectable)			
		Tracking / Road : 0.001m (0.005ft. / 1/8 in.) / 0.01m (0.02ft. / 1/2 in.) (selectable)			
Accuracy*2 Reflectorless*3		(2 + 2ppm x D) mm*8			
(ISO 17123-4:2001)	Reflective sheet*5*6	(2 + 2ppm x D) mm			
(D=measuring distance in mm)		(1.5 + 2ppm x D) mm			
Measuring time*4*9	Fine	0.9s (initial 1.5s)			
	Rapid	0.6s (initial 1.3s)			
	Tracking	0.4s (initial 1.3s)			
OS, Interface and Data	management				
Operating system		Linux			
Display / Keyboard		Graphic LCD, 192 x 80 dots, backlight, contrast adjustment / Alphanumeric keyboard / 28 keys with backligh			
Control panel location		On both faces			
Trigger key		Yes (right side)			
Data storage	Internal memory	Approx. 50,000 points			
	Plug-in memory device	USB flash memory (max. 32GB)			
Interface	Dl t th d (t)*10	Serial RS-232C, USB2.0 (Type A for USB flash memory)			
Caracia	Bluetooth modem (option)*10	Bluetooth Class 1.5, Operating range: up to 10m *11			
General Guide light*12		Cross LED (534sm) =	- d D - d I ED (C2C)	One	150 (4.2 bs. 400fb.)
Laser-pointer*12		Green LED (32411111) a		Operating range: 1.3 to	150111 (4.3 to 4901t.)
	Graphic	Coaxial red laser using EDM beam 6' (Inner Circle)			
Levels	Circular level (on tribrach)			2mm	
Plummet	Optical	Magnification			rach hottom
	Laser (option)	Magnification: 3x, Minimum focus: 0.5m (19.7in.) from tribrach bottom			
Dust and water protection /		Red laser diode (635nm±10nm), Beam accuracy: <=1.0mm@1.3m, Class 2 laser product IP66 (IEC 60529:2001) / -20 to +60°C (-4 to +140°F)			
Dust and water protection / Operating temperature Size with handle		183(W)x 181(D)x 348(H)mm			
Instrument height		192.5mm from tribrach mounting surface			
Weight with battery & tribrach		Approx. 5.3kg (11.7lb)			
Power supply		I	дрргол. Э.	ong (11/10)	
Battery		Li-ion rechargeable battery BDC72			
Operating time (20°C)*13		BDC72: Approx. 28hours*14			
Application program			230,21,1001		
On board		•REM Measurement •3D Coordinate Measurement •Resection •Stake Out			
Oli bodi d					
		•Topography Observation •Offset Measurement •Missing Line Measurement			
		 Intersection ◆Surface Area Calculation ◆Route Surveying ◆Point to Line 			

*1 IEC60825-1:Ed.3.0:2014/ FDA CDRH 21CFR Part1040.10 AND1040.11 *2 Average conditions: Slight haze, visibility about 20km (12 miles), sunny periods, weak scintillation.
*3 With Kodak Gray Card White Side (90% reflective). When brightness on measured surface is 30,000 lx. or less. Reflectorless range/accuracy may vary according to measuring objects, observation situations and environmental conditions. *4 Good conditions: No haze, visibility about 40km (25miles), overcast, no scintillation. *5 When the measuring beam's incidence angle is within 30° in relation to the reflective sheet target. *6 Measuring range in temperatures of 50 to 60°C (122 to 140°F): RS90N-K: 1.3 to 300m (4.3 to 980ft.), RS50N-K: 1.3 to 180m (4.3 to 590ft.), RS10N-K: 1.3 to 60m (4.3 to 190ft.) *7 Face the prism toward the instrument during the measurement with the distance at 10 m or less. *8 Measuring range:0.3 to 200m *9 Fastest time under good conditions, no compensation, EDM ALC at appropriate setting, slope distance. *10 Usage approval of Bluetooth wire-less technology varies according to country. Please consult your local office or representative in advance. *11 No obstacles, few vehicles or sources of radio emissions/interference in the near vicinity of the instrument, no rain. *12 The laser-pointer and the guide light do not work simultaneously. *13 Figures will change depensing on the operating environment including temperatures and observation conditions. *14 In use of ECO mode. Fine single measurement every 30sec.

Standard Package Components

- Main unit Battery (BDC72) Battery charger (CDC77) Power Cable Lens cap Lens hood Tool pouch Precision Screwdriver Lens brush
- Hexagonal wrench (1.3 mm/2.5 mm)×2 Cleaning cloth Quick Manual CD-ROM (Operation manual) Laser caution sign-board Carrying case Carrying strap



TOPCON CORPORATION

75-1 Hasunuma-cho, Itabashi-ku, Tokyo 174-8580, Japan www.topcon.co.jp

<Contact to>

TOPCON POSITIONING ASIA (MALAYSIA) SDN. BHD.

Registration No. 201901043929 (1353259-V)
No. 6, Jalan Pensyarah U1/28,
Hicom-Glenmarie Industrial Park,
40150 Shah Alam, Selangor Darul Ehsan
Email: mys_survey_sales@topcon.com
Web: http://www.topcon.com.my/corporate.html

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GM-100 Series

Geodetic Measurement Station





Evolving Entry-Level Total Station

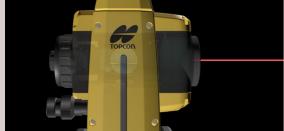
- Construction and Survey Application Software On Board
- Best-in-Class Measuring Distance Feature
- Reliable Large Volume Internal Memory
- Long-Hour Battery Operation
- Strong Environmental Specification against Tough Sites

Construction and Survey Application Software On Board Reliable All-Round Total Station











Reliable Large Volume Memory

Internal memory has 50,000 points to record.

USB memory can be used up to 32GB.

Newly Designed High-End Class EDM

Especially effective in surveying control points that require high-accuracy, and in cross sectional surveying in large areas with reflectorless measurement mode.

All Features are at Top Class

	Accuracy	Measuring Range	
Prism-Mode	1.5mm+2ppm	6,000m*	
Reflectorless	2.0mm+2ppm	1,000m*	

* Good atmospheric condition

Distance Measurement Accuracy (Prism Mode)

Previous Model 2.0mm+2ppm

Measuring Range(Reflectorless Mode)

revious 500m

Distance 1,000m

Superior Basic Feature will Expand Your Application

Strong Environmental Spec

The IP66 rating ensures durability for most any rough job site temperatures and conditions.

Long-life Battery

One battery (BDC70) lasts up to 28 hours, or about four days of normal operation time.

Bright Illumination Key for Nighttime Work

Key buttons are illuminated to minimze mistakes.

Topcon Provides Japan Quality Products



Topcon performs tough environmental tests to ensure long-term operation even under rough site environment. GM Series total stations are thoroughly inspected

with dust-proof and water-proof test chambers. In addition, various tests against vibration, drop, temperature, and humidity were successfully passed to achieve the best environmental spec. Also, 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 the GM Series product quality.

