

GPT-3100WN
REFLECTORLESS TOTAL STATION

 **TOPCON**

GPT-3100WN series

REFLECTORLESS TOTAL STATION (WITH BLUETOOTH™ WIRELESS FUNCTION)



“Pulse+” Laser and Wireless Technology

- *Reflectorless distance measurement up to 350m*
- *Low power consumption*
- *Small diameter pin-point measurement*
- *Laser pointer*
- *Water and dust protection IP66*
- *Versatile applications including ROAD*
- *Bluetooth® wireless technology on-board*

Topcon is the world leader in survey instrumentation, equipping countless surveyors with the most advanced Total Station technology in the industry. We have continue to lead the market by providing time-saving solutions – from our introduction of Guppy in 1976, the first Total Station, to quick-lock, onboard imaging, and long range EDM (Electronic Distance Meter) technology.

Now, Topcon is pleased to introduce our new reflectorless Total Station series with on-board Bluetooth™ wireless function: GPT-3100WN. This model features 2, 3, 5, or 7 second accuracy to fit your budget needs and job requirements. The GPT-3100WN series improved its reflectorless distance measurement capability up to 350m. Together with Laser Safety Class 1, it is now possible to measure long range distance in reflectorless mode without placing your “prism-man” in a dangerous spot. You can even measure safely in city with heavy traffic when using GPT-3100WN (Visible Laser Pointer: Laser Class 2).

Topcon GPT-3100WN series integrate and advance the technologies of its predecessors. The GPT-3100WN series not only has on-board numeric keyboard to make your surveying job easier, it also comes with integrated Bluetooth™ wireless communication function. Your job productivity is now further enhanced by being able to connect to the Total Station with a Bluetooth™ capable field controller or PDA.

Improved reflectorless measurement range and built-in Bluetooth™ wireless function, Topcon GPT-3100WN is the Total Station you need for your precise surveying purposes.

Topcon, it's time.



GPT-3100WN
Reflectorless Total Station

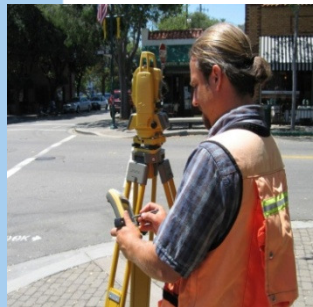


Innovative features and useful functions – Topcon's GPT-3100WN is the answer to your tough surveying jobs



Reflectorless distance up to 350m

GPT-3100WN series reflectorless range of 350m is highly effective when measuring to points where it is in dangerous condition, or difficult condition to place prism directly, and when job efficiency is the first priority. The GPT-3100WN improved range to 350m provides extra flexibility in many field applications such as City Elevation Work, Forestry Survey, Quarries Survey, and many others more.



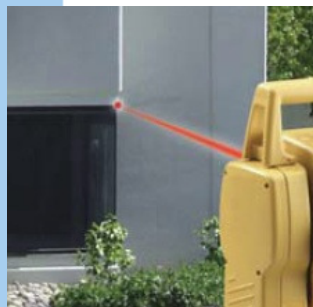
Bluetooth™ wireless technology on-board

GPT-3100WN series provides cable-free, wireless operation. When used with a Bluetooth™ wireless technology capable hand set, you can connect wirelessly to the GPT-3100WN series Total Station. No more cables to loose or break!



Significant saving of power consumption

GPT-3100WN series Total Station uses unique “Pulse+” technology. This Pulse+ optical system contributed to power consumption cut down from 4.7W to 3.6W (±20% decrease). With lower power consumption, your surveying jobs duration can be prolong and boost efficiency.



Laser pointer ON / OFF

GPT-3100WN series Total Station uses both Pulse Laser Diode for distance measurement and Visible Laser for laser pointer. This separation allows class 1 invisible laser to be used for measurement. The visible laser pointer is a class 2 laser which can easily be switched off when required. Effective laser example would be the target for layout point and confirmation of distance measurement point.

SPECIFICATIONS

	GPT-3102WN	GPT-3103WN	GPT-3105WN	GPT-3107WN		GPT-3102WN	GPT-3103WN	GPT-3105WN	GPT-3107WN
TELESCOPE					BLUETOOTH™ UNIT				
Length	150mm				Bluetooth™ Standard	Bluetooth™ Specification v 1.1			
Objective Lens dia.	45mm (EDM 50mm)				Bluetooth™ class	Output Class 2			
Magnification	30x				Transmitting Range	About 5m (range will be different by a condition)			
Image	Erect				DISPLAY				
Field of View	1°30'				Display Unit	Graphics LCD 160 x 64 Dots			
Resolving Power	2.8"				Keyboard	2 sides			1 side
Min. Focus Distance	1.3m (4.9ft.)				Others				
DISTANCE MEASUREMENT					Measuring Points	Approx. 24,000 points			
Prism Mode					Instrument Height	176mm (6.93 in.)			
Measuring Range	1,000m*				Laser Class	Class 1 (for distance measurement) Class 2(Laser Pointer on)			
Mini prism	3,000m* / 4,000m**				LEVEL SENSITIVITY				
1 prism	4,000m* / 5,300m**				Circular Level	10' / 2mm			
3 prisms	5,000m* / 6,500m**				Plate Level	30" / 2mm		40" / 2mm	
9 prisms					DIMENSION				
* Condition 1: Slight haze with visibility about 20km (12.5 miles) moderate sunlight with light heat shimmer.					336(H) x 184(W) x 172(L)mm / 13.2(H) x 7.2(W) x 6.8(L) in.				
** Condition 2: No haze with visibility about 40km (25 miles), overcast with no heat shimmer.					WEIGHT				
Measurement Accuracy ¹	Fine: ±(2mm+2ppmxD)m.s.e. Coarse: ±(7mm+2ppmxD)m.s.e.				Instrument	5.3kg (11.6lbs.) (with battery)			
Measuring Time	Fine mode 1mm: Approx. 1.1 sec. (Initial 2.5 sec.) 0.2mm: Approx. 1.5 sec. (Initial 3 sec.) Coarse mode 1mm / 10mm: Approx. 0.8 sec. (Initial 2 sec.)				Plastic Carrying Case	3.4kg (7.3lbs.) (Weight of the carrying case may be slightly different due to specific market)			
Non-Prism Mode (Diffusing Surface)					DURABILITY				
Measuring Range	1.5m to 350m				Protection against water and dust	IP66 (with BT-52QA) (Based on the standard IEC60529)			
Measuring Accuracy	±(3mm+2ppmxD)m.s.e. Coarse: ±(10mm)m.s.e.				Temperature Range	-20°C to +50°C (-4°F to +122°F)			
Measuring Time	Fine mode 1mm: Approx. 1.7 sec. (Initial 3 sec.) 0.2mm: Approx. 2.6 sec. (Initial 3.5 sec.) Coarse mode 1mm / 10mm: Approx. 1.0 sec. (Initial 2 sec.)				BATTERY BT-52QA [Maximum operating time, when fully recharged at +20°C (+68°F)]				
ANGLE MEASUREMENT					Angle measurement only / Including distance measurement	45 hours / 5 hours			
Method	Absolute Reading				Angle measurement only (Bluetooth™ on)	25 hours			
Detecting System	H/V: 2 sides	H: 2 sides V: 1 side		H/V: 1 side	Angle and distance measurement (Bluetooth™ on)	4 hours			
Minimum Reading	1"/5" (0.2/1mgon)			5"/10"(1/2mgon)	BATTERY CHARGER BC-27BR / CR				
Accuracy ²	2"(0.6mgon)	3"(1mgon)	5"(1.5mgon)	7"(2mgon)	Input Voltage	AC 120V (BC-27BR), AC 230V (BC-27CR)			
Diameter of Circle	71mm				Frequency	50 / 60Hz			
TILT CORRECTION (AUTOMATIC INDEX)					Recharging time (at +20°C / +68°F)				
Tilt Sensor	Dual axis		Single axis		Battery BT-52QA	1.8 hours			
Method	Liquid type				Discharging time (at +20°C / +68°F)				
Compensating Range	±3'				Battery BT-52QA	8 hours (in case of full charge)			
Correction Unit	1" (0.1mgon)				Operating temperature	+10°C to +40°C (+50°F to +104°F)			
					Charging signal	Red lamp illumination			
					Refreshing signal	Yellow lamp illumination			
					Finishing signal	Green lamp illumination			
					Weight	0.5kg (1.1lbs.)			
					- Battery using time will vary depending on environmental conditions and operations done with GPT-3100WN				

Important In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.

*1 D: Measuring Distance

*2 Standard deviation based on DIN18723



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