

GPT-3200NW Series

Reflectorless Total Stations



- Extended Non-Prism Measurement Range up to 400m (1,310 ft.)
- Class I/1M Safe Pulse Laser EDM
- Laser Pointer for NP Measurement and Layout
- 24-key Alphanumeric Keyboard
- TopField and Road Onboard Software
- Point Guide for Stakeout/Layout
- Laser Plummet for Quick Setup
- *Bluetooth*[®] Wireless Connectivity
- Rugged IP66 Dust and Water Protection

 **TOPCON**

GPT-3200NW SPECIFICATIONS

GPT-3202NW | GPT-3203NW | GPT-3205NW | GPT-3207NW

TELESCOPE

Length	150mm (5.9 in.)
Objective Lens Diameter	45mm (1.77 in.), EDM 50mm (1.97 in.)
Magnification	30x
Image	Erect
Field of View	1 deg. 20 min.
Resolving Power	2.8 sec.
Minimum Focus Distance	1.3m (4.27 ft.)

DISTANCE MEASUREMENT

Prism Mode

Measuring Range	3,280 ft. (1,000m)
Mini prism	9,900 ft. (3,000m)
Measuring Accuracy	±(2mm + 2ppm x D)m.s.e.
Measuring Time	
Fine mode 1mm (0.005 ft.)	1.1 sec. (Initial 2.5 sec.)
Fine mode 0.2mm (0.001 ft.)	1.5 sec. (Initial 3.0 sec.)
Coarse mode 1mm/10mm (0.005/0.02 ft.)	0.8 sec. (Initial 2.5 sec.)

Non-Prism Mode

Measuring Range	Condition I*1: 5 ft. to 1,150 ft. (1.5m to 350m) Condition II*2: 5 ft. to 1,310 ft. (1.5m to 400m)
Measuring Accuracy	±(3mm + 2ppm x D)m.s.e.
Measuring Time	
Fine mode 1mm (0.005 ft.)	1.7 sec. (Initial 3.0 sec.)
Fine mode 0.2mm (0.001 ft.)	2.6 sec. (Initial 3.5 sec.)
Coarse mode 1mm/10mm (0.005/0.02 ft.)	1.0 sec. (Initial 2.0 sec.)

ANGLE MEASUREMENT

Method	Absolute Reading 3,000m (9,900 ft.)		
Detecting System	H: 2 sides V: 2 sides	H: 2 sides V: 1 side	H: 1 side V: 1 side
Minimum Reading	1 sec. / 5 sec. (0.2mgon/1mgon)	5 sec. / 10 sec. (1/2mgon)	
Accuracy	2 sec. (0.6mgon)	3 sec. (1mgon)	5 sec. (1.5mgon)
Diameter of Circle	71mm (2.8 in.)		

DISPLAY / KEYBOARD

	2 sides	1 side
Display	Graphics LCD 160 x 64 Dots with backlight, 20 characters x 4 lines	
Keyboard	Alphanumeric, 24 keys	

TILT CORRECTION

Tilt Sensor	Dual axis	Single axis
Method	Liquid type	
Compensating Range	±3 min.	
Correction Unit	1 sec. (0.1mgon)	

OTHER

Laser Pointer	Red Laser Diode, Wavelength 690nm
Point Guide	Two Orange LED
Plummet	Laser Plummet (Red Laser Diode, Wavelength 633nm)
Internal Memory	Max. 24,000 points
Interface	RS-232C / Bluetooth®
Instrument Height	6.93 in. (176mm)
Laser Class	Class I/1M (EDM), Class 2 (Laser Pointer/Laser Plummet)

LEVEL SENSITIVITY

Circular Level	10 min./2mm
Plate Level	30 sec./2mm 40 sec./2mm

DIMENSION

13.2(H) x 7.2(W) x 6.8(L) in. (336(H) x 184(W) x 172(L) mm)

WEIGHT

Instrument (with battery)	11.6 lbs (5.3kg)
Plastic Carrying Case	7.5 lbs (3.4kg)

ENVIRONMENTAL

Dust and Water Protection (IEC 60529)	IP66 (with BT-52QA installed)
Operating Temperature	-4 deg. F to +122 deg. F (-20 deg. C to +50 deg. C)

BATTERY BT-52QA

Operating Time	
Distance and Angle Measurement	About 5.0 hrs. / About 4.2 hrs. w/Bluetooth® connection
Angle Measurement Only	About 45 hrs.

*1 Condition I: Visibility about 20km (12.5miles), in low light condition, without sun glare on target. *2 Condition II: Twilight and night.



Maximize Work Efficiency

Topcon's GPT-3200NW series total stations offer an array of new features that include the enhanced non-prism measurement performance, improved user interface, and increased onboard data collection capability while maintaining field-proven durability and portability. The GPT-3200NW provides superior performance and quality backed by Topcon's industry-leading technologies.



Alphanumeric Keyboard

The onboard "TopField" and "Road" software dramatically increases efficiency in topo data collection, construction layout, as well as road stakeout tasks. The 24-key alphanumeric keyboard allows for quick inputting of point codes, numbers, attributes, and other necessary data.

Extended Non-Prism Range

A refinement of the Non-Prism EDM in the GPT-3200NW allows measuring distances up to 1,310 ft. (400m) range without a reflector. Incorporating Topcon's advanced time-of-flight (pulse) technology, the GPT-3200NW offers both superior performance and maximum safety with its Class I (FDA) / Class 1M (IEC) safe laser. This allows safe use even in areas with heavy traffic.



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