

REFLECTORLESS TOTAL STATION



High Performance non-prism measurement

- Multi-Pulse EDM Technology
- Tough Durability
- Bluetooth Communications (3100NW)
- 24 Key Keyboard
- Large Internal Memory
- Dual-Axis Compensator
- Point Guide System
- 400 m Reflectorless Range

It's time.

The Topcon GPT-3100N range are Pulse Laser Total Stations with superior non-prism measurement capability. Incorporating an updated optical system, the GPT-3100N Series utilises techniques to provide accurate, reliable and safe non-prism distance measurement over a range of up to 400 metres.

In addition to non-prism measurement, the GPT-3100N Series is of a compact, robust construction with IP66 water and dust protection making it the ideal construction site surveying instrument. The intuitive software provides comprehensive functionality to carry out all surveying and stake-out tasks and calculations, storing data on board the instrument.

For a complete, all weather, reflectorless survey instrument that can be applied to almost any surveying task, look no further than the Topcon GPT-3100N Series.

Dual Optical System

The GPT-3100N Series has a Dual Optical System for laser distance measurement. The first optical system is used for non-prism measurements. The system provides a invisible narrow beam, which produces a stable measuring spot for non-prism measurements. The Dual Optical system allows accurate measurements at longer distances and improves the ability to measure to difficult darker surfaces, such as asphalt, at shorter distances.

GPT-3100N

The second optical system in the GPT-3100N series is used in measurements using a reflecting glass prism (as with traditional EDM). This system has a broader measurement beam and is very stable over long distances up to 3 km. The high stability of the beam ensures excellent performance even in conditions with high heat shimmer or other such circumstances where air is unstable, such as over water or along side buildings.

The Topcon GPT-3100N Series combines advanced technology and modern design innovations.



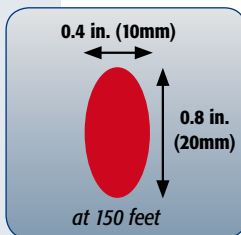
Long Range Prismless Operation: Easy-to-use, Reliable and Safe

Topcon's unique Multi Pulse laser technology allows the GPT-3100N Series to measure up to 400 m in reflectorless mode in complete safety and confidence. The Class 1M laser is so safe, you can even use it in heavy traffic areas.



Multi Pulse Laser - Precise Measurements

The most important part of our measurement beam is its unique "Multi Pulse" technology. A pulse beam emits multiple flashes of laser light. These sets of pulses vary in character so that the laser sensor can eliminate false readings. Now, reliably shooting building corners, or objects through a chain link fence, is as easy as point and measure.



Narrow Beam Technology

The GPT-3100N series reflectorless total station has a narrow beam that easily shoots through tight lines of sight. This is ideal for measuring through beams and duct-work. Other wide beam total stations can't get the job done like Topcon.



Pick your point and measure. Accurately.

Along with its Multi Pulse Laser diode for distance measurement, the GPT-3100N uses Topcon's state-of-the-art visible diode technology as a laser pointer. It puts a bright, flashing spot of light exactly at the point to be measured. No more guessing what you're measuring or what you've measured. What you point at is what you'll measure.

Bluetooth Communications

The GPT-3100NW adds full Bluetooth functionality to the range. Use the Bluetooth to connect any of the range of Topcon field controllers to further maximise productivity in the field.



Longer Distance. Better Accuracy. Less Power Consumption.

Topcon's GPT-3100N Series of reflectorless total stations using Multi Pulse laser technology.



- | | | | |
|---------------------------|---|----------------------------------|---------------------------------------|
| 1 Quick Sight | 4 Horizontal & Vertical Tangents | 7 Removable Handle | 10 Point Guide |
| 2 Bright Optics | 5 Backlit, high-contrast Display | 8 Multi Pulse EDM | 11 Laser Plummet |
| 3 On-board Battery | 6 Removable Tribrach | 9 30X Magnification Scope | 12 24 key Alpha-Numeric keypad |

24 Key Keyboard

The GPT-3100N Series has a 24 numeric key keyboard build in. This 24 key keyboard makes it easier and quicker to enter codes and other alphanumeric data whilst in the field.



Standard Components:

- GPT-3100N series
- Battery BT-52QA
- Battery charger BC-27BR (120V) or BC-27CR (230V)
- Charging Cradles
- Tool kit with case
- Carrying case
- Plumb bob set



It's time.

The Leader in Positioning Technology ...

Topcon offers positioning products that deliver unparalleled site-wide performance and integration. Topcon's history of technological advances and our reputation for superior reliability means there's no other company positioned to provide you with a better "Total Positioning Solution."

From survey to inspection Topcon, through our dealer network, provides the innovative technology that gives surveyors, civil engineers, contractors, equipment owners, and operators the competitive edge by addressing such critical issues as increasing profits, quality craftsmanship, improving productivity, lowering operating costs, and enhancing job site safety.



Full positioning integration field-to-finish: That's the goal of Topcon. When it's time for you to step up to the next level, it's time to turn to Topcon.

The Leader in Customer Satisfaction ...

To ensure that your Topcon instruments maintains peak performance, your local Topcon dealer offers factory trained and certified service technicians. If service isn't available in your area, our European Service Center offers a repair and return policy second to none.

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Specifications subject to change without notice
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SPECIFICATIONS

	GPT-3102N/NW	GPT-3103N/NW	GPT-3105N/NW	GPT-3107N/NW
TELESCOPE				
Magnification	30x			
Field of view	1°30'			
Minimum focus	1.3 m			
Reticle illumination	Provided			
DISTANCE MEASUREMENT (Prism Mode)				
1 prism *	3000 m			
Accuracy	±(2 mm + 2 ppm) m.s.e.			
Minimum reading	fine: 0.2 mm; coarse: 1 mm; tracking: 10 mm			
Measurement time	fine: 1.2 sec; coarse: 0.5 sec; tracking: 0.3 sec			
DISTANCE MEASUREMENT (Non-prism Mode)				
Kodak white card	1,5 ~ 400 m			
Accuracy	±(3 mm +2 ppm x D) m.s.e.			
Laser class	1M			
ANGLE MEASUREMENT				
Accuracy (Standard deviation based on DIN 18723)	2"	3"	5"	7"
Minimum reading	1"			3"
TILT SENSOR				
Type	dual axis			single axis
Compensating range	±3'			
COMMUNICATIONS				
RS232 Serial	all instruments			
Bluetooth	3100NW models only			
DISPLAY				
LCD	Graphic LCD 160 x 64 dots with backlight			
	2 sides			1 side
OTHERS				
Instrument height	176 mm			
Point guide	Provided			
Dimension (H x W x L)	336 mm x 184 mm x 172 mm			
Weight (incl. battery)	5.3 kg			
Dust and water protection	IP66			
Operating temperature	-20°C to +50°C			

 **TOPCON**
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Your local authorized Topcon distributor is: