

GPT-3200N series

REFLECTORLESS TOTAL STATION



"Multi Pulse" Laser Technology



- **Reflectorless distance measurement up to 350M**
- **Low power consumption**
- **Small diameter pin-point measurement**
- **Point guide**
- **Laser pointer**
- **Water and dust protection IP66**
- **Versatile applications including Road**

New Reflectorless distance measurement technology "Multi Pulse"

Topcon's unique optical technology "Multi Pulse" enhanced the productivity

Reflectorless distance measurement up to 350M



GPT-3200N achieved Reflectorless distance measurement up to 350M, 140% improvement against previous model (250M)

Significant saving of power consumption



Multi Pulse optical system contributed to power consumption cut down from 4.7W to 3.6W ($\pm 20\%$ down), but extended operating time to 5 hours (+120%)

It's time.

TOPCON CORPORATION

75-1 Hasunuma-cho, Itabashi-ku, Tokyo 174-8580, Japan
Phone: (+81)3-3558-2527/2521 Fax: (+81)3-3960-4214
www.topcon.co.jp



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Specifications subject to change without notice

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Specifications

	GPT-3205N	GPT-3207N
TELESCOPE		
Length	150mm	
Objective Lens Dia.	45mm (EDM 50mm)	
Magnification	30x	
Image	Erect	
Field of View	1°30'	
Resolving Power	2.8"	
Min. Focus Distance	1.3m (4.9 ft.)	
DISTANCE MEASUREMENT		
Prism Mode		
Measuring Range		
Mini prism	1,000m*	
1 prism	3,000m*/4,000m**	
3 prisms	4,000m*/5,300m**	
9 prisms	5,000m*/6,500m**	
* Condition 1: Slight haze with visibility about 20km (12.5 miles) moderate sunlight with light heat shimmer.		
** Condition 2: No haze with visibility about 40km(25 miles), overcast with no heat shimmer.		
Measurement Accuracy*1	Fine: $\pm(2\text{mm}+2\text{ppm}\times\text{D})\text{m.s.e.}$ Coarse: $\pm(7\text{mm}+2\text{ppm}\times\text{D})\text{m.s.e.}$	
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.)		
Non-Prism Mode (Diffusing Surface)		
Measuring Range 1.5m to 350m		
Measuring Accuracy $\pm(3\text{mm}+2\text{ppm}\times\text{D})\text{m.s.e.}$		
Coarse: $\pm(10\text{mm})\text{m.s.e.}$		
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 2.0 sec.)		
ANGLE MEASUREMENT		
Method Absolute Reading		
Detecting System	H: 2 sides V: 1 side	H: 1 side V:1 side
Minimum Reading	1"/5" (0.2/1mgon)	5"/10" (1/2mgon)
Accuracy*2	5" (1.5mgon)	7" (2mgon)
Diameter of Circle	71mm	
DISPLAY		
Display Unit Graphics LCD 160 × 64 Dots with backlight		
1 side		
Keyboard Alpha-Numeric key		
TILT CORRECTION (AUTOMATIC INDEX)		
Tilt Sensor	Dual axis	Single axis
Method Liquid type		
Compensating Range	$\pm 3'$	
Correction Unit	1" (0.1mgon)	
OTHERS		
The Number of Measuring Points	Approx. 24,000 points	
Instrument Height	176mm (6.93 in.)	
Laser Class	Class 1 (for distance measurement)	Class 2 (Laser Pointer on)
LEVEL SENSITIVITY		
Circular Level	10"/2mm	
Plate Level	30"/2mm	40"/2mm
DIMENSION		
336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.		
WEIGHT		
Instrument (with battery)	5.3kg(11.6 lbs.)	
Plastic Carrying Case	3.4kg (7.3 lbs.) (Weight of the carrying case may be slightly different due to specific market.)	
DURABILITY		
Protection against water and dust	IP66 (with BT-52QA) (Based on the standard IEC60529)	
Ambient Temperature Range	-20°C to +50°C (-4°F to +122°F)	
BATTERY BT-52QA		
Maximum operating time (when fully recharged) at +20°C (+68°F)		
Angle measurement only/Including distance measurement	45 hours/5 hours	

*1 D: Measuring Distance *2 Standard deviation based on DIN18723

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