



SURVEY PRODUCTS: GPT-8000A

TOPCON



GPT-8000A

With RC-2II FastTrak

- **Optical Communications (Radioless)**
- **Instant Lock**
- **Reflectorless**

ROBOTIC SURVEYING WITHOUT RADIOS



It's frustrating when your surveying is interrupted by bad radio links and by losing lock due to traffic or bystanders. Topcon ends these hassles with their GPT-8000 Robotic Total Station and RC2II FastTrak System. It's the world's first robotic, one-man survey system that provides both radioless, reflectorless distance measurements to 400' and instant lock capability at the press of a button.

Optical Communications System.

Radio-free operation eliminates any chance of reading a bad signal or dealing with interference.

RC2II FastTrak System. Wireless operation ensures fast, simple acquisition of the GPT-8000 tracking beam. When job-site obstacles disrupt the beam, FastTrak instantly re-acquires lock at the press of a button.

Reflectorless Total Station. Distances to 400' can be measured without the use of prisms, making it ideal when measuring points in dangerous or difficult terrain.

Flexibility. Should the job require greater range, Topcon enables you to also use traditional radio technology.

Durability. Waterproof and dustproof construction stands up to inclement weather and very dusty jobsite conditions.

Topcon's GPT-8000 and RC2II FastTrak System. It's the ideal way to increase your surveying efficiency and productivity.

For more info on this or any other Topcon product log on to:

www.topcon.com



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Specifications subject to change without notice

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SPECIFICATIONS

Auto tracking Servo Mechanism

	GPT-8001A	GPT-8003A
Max. rotation speed	50°/sec	50°/sec
Max. auto tracking speed	15°/sec angle acceleration 10°/sec ²	15°/sec angle acceleration 10°/sec ²
Auto tracking range	3,300' (1,000m)	3,300' (1,000m)
Drive range	Throughout full revolution	Throughout full revolution
Search range	User definable	User definable
Coarse Movement	Shuttle control (output: 7 speed change / inside: no shifting speed change)	Shuttle control (output: 7 speed change / inside: no shifting speed change)
Fine Movement	Jog control (Minimum 1 sec.)	Jog control (Minimum 1 sec.)
Positioning accuracy	Standard deviation 3"	Standard deviation 3"

Optical Communications (Radioless)

2-way FastTrak range	950'+ (300m+)	950'+ (300m+)
1-way FastTrak range	2300' (900m)	2300' (900m)

Distance Measurement

Measurement range		
Mini Prism	4,900' (1500m)	4,900' (1500m)
Single Prism	22,900' (7000m)	22,900' (7000m)
<i>Visibility about 12.5 miles (20km), moderate sunlight</i>		
Measuring accuracy	±3mm + 2 m.s.e.	±3mm + 2 m.s.e.
Minimum reading	Fine 0.2mm/1mm Coarse 1mm/10mm	Fine 0.2mm/1mm Coarse 1mm/10mm
Measuring time(initial)	Fine 1mm mode approx. 1.2 sec. approx. 3 sec.	Fine 1mm mode approx. 1.2 sec. approx. 3 sec.

Distance Measurement (Non Prism)

Measurement range	400	400
Measuring accuracy	<25m (±10mm) m.s.e. >25m (±5mm +2ppm) m.s.e.	<25m (±10mm) m.s.e. >25m (±5mm +2ppm) m.s.e.

Angle Measurement

Method	Absolute encoder	Absolute encoder
Detecting	Horizontal: dual / Vertical: dual	Horizontal: dual / Vertical: dual
Minimum reading	0.5"/1"	1"/5"
Accuracy	1"	3"

Tilt sensor

Type	Dual axis	Dual axis
Compensating range	±4'	±4'

Level sensitivity

Circular level	10"/2mm	10"/2mm
Plate level	30"/2mm	30"/2mm

Optical plummet

	Optical plummet	Optical plummet
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Others

P.G.	Yes	Yes
Waterproof	IP54	IP54
Operating time	Normal use: 2.5h Distance and Angle measurement: 4.0h	Normal use: 2.5h Distance and Angle measurement: 4.0h
Battery	2 pce	2 pce
SSS	No	No

Your Local **TOPCON** dealer is: