

Specifications

GPT-8201A Model Name GPT-8203A GPT-8205A

Measurement Range Prism Mode

1 prism Pin pole prism Mini Prism 2 - 1,500m (6.6 - 4,920 ft) *

* Condition 1: Sight haze with visibility about 20Km (12.5miles) moderate sunlight with light heat shimmer.

Non-Prism Normal Mode

Kodak Grav Card White (90%) surface 30m - 1200m (98 - 3937 ft) 30m - 500m (98 - 1647 ft)

Accuracy Prism Mode

Fine Mode Coarse Mode Non-Prism Normal Mode Fine Mode 3 - 25m (9.8 ft - 82 ft)

Fine Mode 25m (82 ft) Coarse Mode Non-Prism Long Mode

Fine Mode (1mm mode only) Coarse I Mode Coarse II Mode

Prism Mode Fine mode Coarse mode

Non-Prism Normal Mode Fine Mode Coarse Mode

Non-Prism Long Mode Fine mode Coarse I Mode Coarse II Mode

Measuring Time Prism Mode

Fine Mode Coarse Mode

Non-Prism Normal Mode

Fine Mode

Coarse Mode

Non-Prism Long Mode (White Surface) Fine mode Coarse I Mode

Coarse II Mode **Angle Measurement**

Method Minimum Reading

Accuracy

Tracking Method Maximum Turning Speed Maximum Tracking Speed Tracking Range

Tracking Accuracy

TOPCON

www.topcon.com

7400 National Dr. Livermore, CA 94551 Phone: (925) 245-8300

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2 - 7,000m (6.6 - 22,900 ft) * 2 - 2.500m (6.6 - 8.200 ft) *

3 - 120 m (9.8 - 394 ft) Non-Prism Long Mode

Kodak Gray Card Gray (18%) surface

±(2mm+2ppmxD*)m.s.e. \pm (10mm+2ppmxD*)m.s.e.

> ±(10mm) m.s.e. ±(3mm+2ppm) m.s.e. ±(10mm+2ppm) m.s.e.

±10mm+10ppm ±20mm+10ppm ±100mm

Least Count in Measurement

0.2mm(0.001ft) / 1mm(0.005ft) 1mm(0.005ft) / 10mm(0.02ft)

> 0.2mm(0.001ft) / 1mm(0.005ft) 1mm(0.005ft) / 10mm(0.02ft)

> > 1mm (0.005 ft) 5mm (0.01 ft) 10mm (0.02 ft)

1mm: Approx. 1.2 sec.(Initial 3.0 sec.) 0.2mm: Approx. 3.0 sec.(Initial 4.0 sec.) 10mm: Approx. 0.3 sec.(Initial 2.5 sec.) 1mm: Approx. 0.5 sec.(Initial 2.5 sec.)

1mm: Approx. 1.2 sec.(Initial 3.0 sec.) 0.2mm: Approx. 3.0 sec.(Initial 4.0 sec.) 10mm: Approx. 0.3 sec.(Initial 2.5 sec.) 1mm: Approx. 0.5 sec.(Initial 2.5 sec.)

1.5 sec - 6.0 sec (Initial 6.0 - 8.0 sec) 1.0 sec - 3.0 sec (Initial 6.0 - 8.0 sec) 0.4 sec (Initial 4.0 - 7.0 sec)

Absolute Reading

0.5"/1"

(0.1/0.5mgon)

(0.3mgon)

1"/5" (0.2/1mgon)

(1mgon)

50°/ sec 12°/ sec Prism Type 2:8m - 800m 360° Prism : 10m - 500m Reflector tape : 10m - 50m



(1.5mgon)



URVEY INSTRUMENT

GPT-8200 Series

Advanced robotic total station





The new GPT-8200 series from Topcon brings some of the most advanced instrument design available to the field.

RC-2IIW "Fast-Trak" system is comprised of these components:



RC-2RW



one on each quadrant of the handle

Bluetooth®

GPT-8200 SERIES

The widest selection of precision instruments and a commitment to quality product and service have made Topcon the Number 1 instrument manufacturer in the World. Continuous innovation to improve design, operation and capability is the key to maintaining our leadership position. The new 8200 series, reflectorless robotic total station is no exception.

- Reflectorless Measurement up to 1200m or nearly 4000'
- Advanced reflectorless EDM design with two mode operation
- Completely cable-free operation with new wireless RC-2IIW
- Radio-free optical data communication
- Sophisticated tracking technology without expensive, special prisms
- Innovative Movement Anticipation tracking technology

The latest GPT-8200 reflectorless robotic total station from Topcon offers advanced design features at the best value on the market. When you compare the 8200 series to the competitors, the choice is clear.

Innovation, not imitation. It's a way of life for Topcon.

Continuing to bring you the most advanced positioning technology available.

Superior Technology. Superior Design. Superior Performance and Productivitu.

Only from Topcon. The world leader in precision positioning technology.

RC-2IIW "Fast-Trak"

Setting new standards for productivity and robotic control!

Topcon has taken advantage of our 70+ years of experience in the surveying and construction industry to bring a better solution to the field; we call it the RC-2 Remote Control System. The RC-2 provides the added functionality of an extremely quick way to regain instrument lock, and the capability of infrared (IR) communication free from radio interference. This system, added to our industry leading GPT-8200 Series robotic total stations, makes the Topcon robotic instrument line the most advanced and most productive system available today!





system is the ability to replace the traditional robotic system radios with infrared (IR) communication. The RC-2 provides IR communication to the instrument for distances up to about 800 feet away! This system eliminates the added hassles of radio interference, more cables and more batteries to charge. In fact, when using Topcon's RC-2 with IR communication there is nothing hanging off of the instrument! Think about that the next time you break a cable or forget to charge a battery.

An added advantage of the Topcon RC-2





GPT-3000W Series



The World's First Completely Cable-Free Robotic System



GTS-720 Series