

# 9-Series

## Robotic Total Station System



### Superior Robotic Technology

- X-TRAC 7 TECHNOLOGY
- SUPERIOR QUICK-LOCK AND TRACKING TECHNOLOGY
- ADVANCED, LONG RANGE REFLECTORLESS EDM TECHNOLOGY
- INTEGRATED INTERFERENCE FREE 2.4 GHz SPSP ROBOTIC DATA COMMUNICATIONS
- FULL-COLOR, GRAPHICAL WINDOWS® CE INTERFACE



**Faster, Smarter, Farther, Stronger - That's what the new 9-Series promises... and that's what Topcon delivers.**

Jobsite demands are constantly changing. Adopting and utilizing the very best technology innovations for your business enables you to increase your productivity and profitability like never before.

Robotic instrument technology and the significant performance advantages it can offer have changed the way topography and layout tasks are completed worldwide. Through Topcon's leadership and experience in optical instrumentation that spans more than 70 years, we have the know-how to design and build the very best Robotics systems available. Topcon is now on its 8th generation of robotic instrument technology.

With a modern, cable-free design, the 9-Series offers the most advanced robotic technology available. From Topcon, the world leader in optical total station technology. Our 9-Series robotic system features sophisticated technology unique to Topcon – our one-touch quick-lock feature that set the standard in Robotic target acquisition has taken another step forward, with X-TRAC 7. A superior technology solution for strong tracking and quick re-acquisition in challenging environments.



Available in 1, 3, and 5 second angle accuracies, you can select the instrument that best fits your requirements. The GTS-900A is prism required measurement technology. All GPT-9000A Series robotic systems offer reflectorless measurement superior to any other instrument available – capable of precision measurements at a mind-boggling 6,500 ft. (2,000m)!

Topcon's new 9-Series Robotic Systems: Superior Technology – Superior Design – Superior Performance and Value: only from Topcon, the World Leader in Precision Measurement Technology.



**9-SERIES**  
Robotic Total Station System



**The new Topcon 9-Series combines advanced technology and modern design innovations.**



**X-TRAC 7 Technology**

- Strong Prism Tracking
- Fast Tracking
- Fast and Accurate Quick-Lock
- Intelligent RC-3 Power Regulation



**Advanced System Design**

- Completely Cable-free instrument and rover
- Integrated graphical Windows color touch screen interface
- New, ultra-fast robotic servo technology



**Integrated Radio System**

- 2.4 GHz Interference free Spread Spectrum Radio
- Integrated into side panel of the instrument
- Optional, radio module RS-1 for the FC-200 and FC-2500



**FC-200 or FC-2500 Field Controller**

**FC-200:**

- Integrated Bluetooth® wireless technology
- 520 MHz Intel XScale® processor
- Optional RS-1 radio module

**FC-2500:**

- Integrated Bluetooth® wireless technology, WiFi
- Fast 624 MHz processor
- 256MB SDRAM, 2GB Storage
- Optional RS-1 radio module

**Completely cable-free system components:**

- GPT-9000A/GTS-900A Robotic Instrument
- FC-200 or FC-2500 Graphical Field Controller
- RS-1 Radio System
- Lightweight 360° prism
- TopSURV 7 field controller software

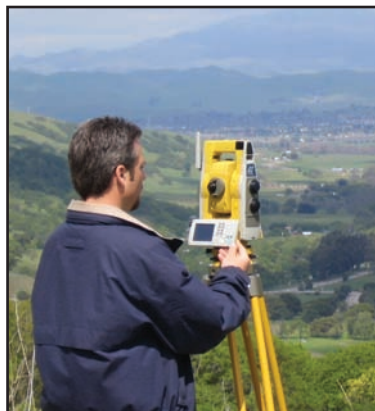


**Faster - Smarter - Farther - Stronger. The Topcon 9-Series robotic total stations are the latest, most advanced system on the market today combining modern design and advanced technology.**



**2000m Reflectorless EDM Technology (GPT-9000A Series only)**

- Most powerful reflectorless EDM available
- Measure reflectorlessly to almost anything at 350 meters
- Long range power means unsurpassed short range performance
- Pinpoint accuracy with narrow, focused beam



**Complete Robotic System in 1 Case:**

- GPT-9000A/GTS-900A Instrument
- Dual Tray Charging Cradle
- FC-200 Controller
- RC-3 System
- Lightweight 360° prism
- Radio Antennas
- Manuals & Utility software



## 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 dealers throughout the world provide 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 jobsite 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 product maintains peak performance, your local Topcon dealer offers factory trained and certified service technicians. If service isn't available in your area, our factory offers a repair and return policy second to none.

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Specifications subject to change without notice

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P/N: 7010-2014 Rev. A Printed in U.S.A. 1/09

## Specifications

|  | 9001A/901A                     | 9003A/903A             | 9005A/905A             |
|--|--------------------------------|------------------------|------------------------|
| <b>ANGLE MEASUREMENT</b>                             |                                |                        |                        |
| Method   | Absolute Reading               |                        |                        |
| Horizontal   | 2 sides                        |                        |                        |
| Vertical   | 2 sides                        |                        |                        |
| Minimum Reading                                      | 0.5"/1"<br>(0.1/0.5mgon)       | 1" / 5"<br>(0.2/1mgon) | 1" / 5"<br>(0.2/1mgon) |
| Accuracy   | 1"<br>(0.3mgon)                | 3"<br>(1mgon)          | 5"<br>(1.5mgon)        |
| Tilt Correction                                      | Dual Axis                      |                        |                        |
| Compensating Range                                   | ±6'                            |                        |                        |
| <b>DISTANCE MEASUREMENT</b>                          |                                |                        |                        |
| Prism Mode   |                                |                        |                        |
| 1 prism  | 9,840' (3,000m)                |                        |                        |
| 3 prism  | 13,120' (4,000m)               |                        |                        |
| 9 prism  | 16,400' (5,000m)               |                        |                        |
| Accuracy   |                                |                        |                        |
| Fine 0.2mm / 1mm                                     | ±(2mm+2ppmxD*) m.s.e.          |                        |                        |
| Coarse 1mm   | ±(7mm+2ppmxD*) m.s.e.          |                        |                        |
| Coarse 10mm  | ±(10mm+2ppmxD*) m.s.e.         |                        |                        |
| Non-Prism Mode ( <i>GPT-9000A Series only</i> )      | 4.9' - 820' (1.5m - 250m)      |                        |                        |
| NP Accuracy  |                                |                        |                        |
| Fine 0.2mm / 1mm                                     | ±(5mm) m.s.e.                  |                        |                        |
| Coarse 1mm / 10mm                                    | ±(10mm) m.s.e.                 |                        |                        |
| Non-Prism Long Mode ( <i>GPT-9000A Series only</i> ) | 16.4' - 6,500' (5.0m - 2,000m) |                        |                        |
| NP Long Mode Accuracy                                |                                |                        |                        |
| Fine 1mm   | ±(10mm+10ppmxD*) m.s.e.        |                        |                        |
| Coarse 5mm   | ±(20mm+10ppmxD*) m.s.e.        |                        |                        |
| Coarse 10mm  | ±(100mm) m.s.e.                |                        |                        |
| <b>USER INTERFACE</b>                                |                                |                        |                        |
| OS   | Microsoft Windows® CE.NET 4.2  |                        |                        |
| Processor  | Intel PXA255 400MHz            |                        |                        |
| Screen   | Full Color Touch-screen        |                        |                        |



Topcon Positioning Systems is the worldwide leading developer and manufacturer of precision positioning equipment and offers the widest selection of innovative precision GPS systems, laser, optical surveying, and machine control products.



From open-field construction projects to isolated surveying sites and from rolling farmland to inner city utility projects, Topcon Positioning Systems provides innovative technology that provides a decidedly competitive edge to end-users.



The recognized innovative trend-setter in its industry, Topcon has focused on developing an array of integrated positioning and automation technologies to meet the constantly changing demands facing construction, surveying, agriculture, utilities and law enforcement industries worldwide.

Your local Authorized Topcon dealer is: