

QS Series

Quick Station Series

QS SPECIFICATIONS

ANGLE MEASUREMENT	QS1	QS3	QS5
Method	Absolute Reading		
Horizontal	2 sides		
Vertical	2 sides		
Minimum Reading	0.5"/1" (0.1/0.5mgon)	1" / 5" (0.2/1mgon)	1" / 5" (0.2/1mgon)
Accuracy	1" (0.3mgon)	3" (1mgon)	5" (1.5mgon)
Tilt Correction	Dual Axis		
Compensating Range	±6'		
DISTANCE MEASUREMENT			
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	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	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.		
USER INTERFACE			
OS	Microsoft Windows® CE.NET 4.2		
Processor	Intel PXA255 400MHz		
Screen	Full Color Touch-screen		

The Leader in Positioning Technology...

Topcon's positioning products deliver unparalleled site-wide performance and integration. Our history of technological advances and reputation for superior reliability means there's no other company better able to provide a Total Positioning Solution.

Through innovative technology and quality craftsmanship,

Topcon provides surveyors, civil engineers, contractors, equipment owners and operators the competitive edge by improving productivity, lowering operating costs, and enhancing jobsite safety, thereby increasing profits.

Our goal is full positioning integration from field-to-finish. If you are ready for the next level, it's time to turn to Topcon.



- Advanced X-TRAC 8 Tracking Technology
- One touch robotic setup
- Unmatched long range reflectorless EDM technology
- New Quick Lock RC-4 System with integrated robotic radio communication
- Full-color, graphical Windows® CE interface



topconpositioning.com

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Superior Technology, Design, Performance and Value

The QS Series Quick Station

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 QS Series offers the most advanced robotic technology available. The QS 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 8, 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. All QS 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 QS Series Robotic Systems: Superior Technology – Superior Design – Superior Performance and Value only from Topcon, the World Leader in Precision Measurement Technology.



- Advanced New Prism Tracking
- Maintains Lock in tough environments
- Fast and Accurate Lock
- Extended RC-4 Range

Choose what Field Controller fits your needs



NEW FC-25:

- Windows Mobile®
- Ultra compact, lightweight design
- Integrated *Bluetooth*® wireless technology
- 520 MHz XScale® processor



NEW FC-25A

- Built-in Camera, Compass and Altimeter



FC-250:

- Windows Mobile®
- Integrated *Bluetooth*® wireless technology
- 520 MHz XScale® processor
- Small, lightweight design



NEW FC-236:

- MIL-STD-810G and IP67 Compliance
- Microsoft Windows Mobile®
- Marvell PXA310 806MHz processor
- Integrated *Bluetooth*® wireless & 3.5G Cellular connectivity
- Highly rugged design
- Embedded High Sensitivity GPS Receiver
- 3MP Auto-focus Camera

FC-2500:

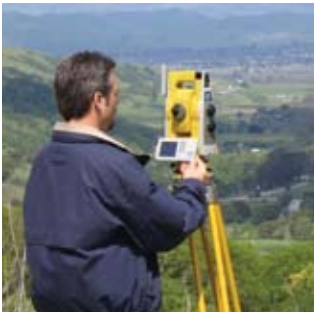
- Windows® CE 5.0
- Integrated *Bluetooth*® wireless technology & WiFi
- Fast 624 MHz processor
- 256MB SDRAM, 2GB Storage
- Full keyboard functionality

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



Now even faster 2000m Reflectorless EDM Technology

- 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



Integrated Radio System

- 2.4 GHz Interference free Spread Spectrum Radio
- Integrated into side panel of the instrument
- RC-4R includes built-in radio module
- New system design extends operational range over 20%
- Open Controller Strategy



Completely cable-free system components:

- QS Robotic Instrument – 1", 3" and 5" accuracy options
- Choice of FC-25, FC-250, FC-236 or FC-2500 Graphical Field Controller
- TopSURV 8 field controller software
- RC-4 Quick Lock System
- Dual Tray Charging Cradle
- Lightweight 360° prism
- Manuals & Utility software



Advanced System Design

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



GPS integration supported with Topcon GRS-1