

Topcon ES Series Total Stations

A new standard for Total Stations Topcon's new ES Series Total Station. New advanced design with superior technology. The new ES Series was designed from the ground up to deliver the very latest technological advantages, all in a small sleek design. You'll appreciate the advantages from the very first measurement!

Features & Benefits

- **TSshield™ Technology ?**
- Fast and Powerful EDM
- LongLink™ Communications
- Super Long Battery Life - 36 hours (100 Series)
- Advanced Angle Accuracy
- Rugged and Waterproof

[View Promotional Video](#)

TSshield™

The TSshield™ system provides notifications for software updates with messages directly on the total station when available. TSshield™ is able to track the total station and provide its location if it is misplaced or stolen. The owner can even send a code to lock the instrument so that it can not be operated.

Fast and Powerful EDM

The ES Series instrument measures in 0.9 seconds. Coaxial EDM beam and laser pointer provides both fast and accurate aiming. The EDM is even able to accurately measure on difficult, reflective surfaces. Featuring a class-leading EDM unit, the ES 100 Series is able to measure up to 4,000 meters to a standard prism, and can measure in reflectorless mode up to 500 meters (350m for the 50 Series) at an incredible 3mm+2ppm accuracy. The ultra-narrow EDM beam can precisely measure walls, corners and through fence openings. Our red laser pointer is coaxial, making indoor aiming very quick, and in limited sunlight, can assist the remote rod man.

LongLink Technology

The ES 100 Series of total stations feature Class 1 Bluetooth™ wireless technology for reliable communication. The long range communication changes the surveyors workflow by placing the data collector at the remote position. The instrument operator simply aims the instrument and the remote rod position triggers the measurement from the data controller. Eliminate the frustration of handsignals and errors on layout and other applications.

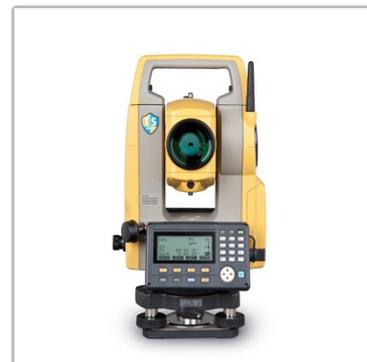
NOTE: The Topcon ES-50 series instruments are serial connection only.

Super-Long Battery Life

The super long battery life provides for almost a full week's worth of work in the field before you need to recharge the battery. The batteries can be used with our Topcon HiPer V GNSS receiver as well as our other current Topcon total stations.

Advanced Angle Accuracy

Our advanced encoder technology provides "Best in class" 1 second angle accuracy. Technology allows the instrument to calibrate its own angle measurement system by itself. With Tangents that lock you can be secured that the instrument will hold your angle in place



Topcon ES series Total Station Specifications	
Angle Measurement	
Accuracy	1" (0.3 mgon) / 2" (0.6 mgon) / 3" (1.0 mgon) / 5" (1.5 mgon) / 7" (2.0 mgon)
Tilt Correction	Dual Axis
Compensating Range	± 6'

Distance Measurement	
Prism Mode	
Range	13,120' (4,000m) - 9,840' (3000m) - 7" model to 1 prism
Measuring Accuracy	±2mm + 2ppm m.s.e
Measuring Time	0.9s
Non-Prism Mode	
Measuring Range	1'-1,640' (0.3m-500m) [100 Series] 1'-1,148' (0.3m-350m) [50 Series]
Measuring Accuracy	±3mm + 2ppm m.s.e (-200m)
Measuring Time	0.9s
Other	
User Interface	Bluetooth Class 2 / USB Type A [100 Series only] RS232 [50 Series & 100 Series]
Data Storage	10,000 points [100 Series] 5,000 points [50 Series]
Ingress Protection	IP66
Operating Time at 68°F (20°C)	36 hours [100 Series] 15 hours [50 Series]
Battery	BDC70 [100 Series] - same as other total stations BDC46 [50 Series] - same as RC-5