

# Topcon PS Series Robotic Total Stations

A PS-Series Total Station is professional robotic total station for the surveying professional that is looking for a one-man solution .

## Features & Benefits

- TSshield™
- Advanced PowerTrac™ Tracking
- Fast and Powerful EDM
- Longlink Communication
- Advanced Angle Accuracy
- Rugged Waterproof IP65 design
- MAGNET On-board
- Hybrid ready ?

[Topcon PS robotic total station product video \(3 min, 26 sec\)](#)

### Your Productivity, Our Technology

This rugged, waterproof designed total station has the latest technology of TSshield™ advanced security and maintenance, exclusive LongLink™ communications and Topcon RC-5 remote with a quick-lock function--providing features that are not found in other systems.

### TSshield™ Advanced Security and Maintenance

Total stations have a telematics card installed that will communicate to the Topcon servers every day. Topcon can then review if the total station has any error codes from the day before, what firmware version is installed, as well as the total station location. From this information Topcon can send a message to the total station and advise the operator if a newer version is available. Topcon is providing 3 years worth of telematics at no charge to the customer for this data

### PowerTrac Tracking Technology

The revolutionary PowerTrac engine dramatically increases power for prism tracking. Employing entirely new optics, laser system, and further advanced algorithms, PowerTrac provides the PS Series with unsurpassed ability to keep tracking a moving prism even under the toughest environmental conditions.

### Fast and Powerful EDM

The 1000m (3,280 ft) Non-Prism is a phase shift EDM that has a smaller beam width then other non-prism instruments in this class. Measurements can be as fast as 0.9 seconds in the fine mode. The Topcon algorithm reduces the noise associated with non prism measurements providing an accurate result to most surfaces over longer distance. This is true for darker surfaces and wet surfaces where other non-prism fail. Our smaller beam width allows Topcon to get measurements to a fence as well as through the fence to a building behind. 6000m (19,680 ft) is the distance to a prism. Almost twice the distance as the competition!

### Exclusive LongLink™ Communications 600m (1,968 ft)

When connected with external data collector the Longlink™ communication provides license free communication. The Longlink communication is built in to the RC-5. The RC-5 has the ability to send a signal to the total station to quickly re-acquire the prism.



Topcon PS series Robotic Total Station Specifications	
<b>Angle Measurement</b>	
<b>Accuracy</b>	
Accuracy	1" (0.3 mgon) /3" (1.0 mgon) 5" (1.5 mgon, not available in North America)
Tilt Correction	Dual Axis
<b>Distance</b>	
<b>Prism</b>	
Range	Single Prism 6000m (19,680 ft) Triple Prism 10,000m (32,800 ft)
Measuring Accuracy	1.5mm+2ppm
Measuring Time	0.9 seconds
<b>Non-Prism Mode</b>	
Measuring Range	800m (2,624 ft) 1000m (3280 ft) 500 lux
Measuring Time	0.9 seconds
<b>Auto Tracking Servo</b>	
Max Rotating Speed	85 degrees/ Second
Max. Auto Tracking Speed	20 degrees/ second
Auto Tracking Range	1,000m (3,280 ft) 600m (1,980 ft) with A7 prism

Positioning Accuracy	1.2mm (<100m 0.3 +9ppm)
<b>Interface</b>	
Bluetooth®	Bluetooth Class 1 600m (1968 ft) communication range with RC-5
Communications Port	RS-232 New Connector
USB Port	A and B
Wireless Communications	WLAN Tierra Module
<b>Others</b>	
Operating System	Windows CE 6.0
Display Panel	240 * 320 QVGA Color TFT Single Display and Keyboard
Waterproof Rating	IP-65
Software	Magnet On-board
<b>Power</b>	
Battery	BDC70 Li-ion 7.2 v5240 mamps 4 hours