



PS SERIES
ROBOTIC TOTAL STATION





Advanced Design with Superior Technology

- Advanced security and maintenance with TSshield™
- PowerTrac™ tracking technology
- Ultra-powerful advanced EDM
- Exclusive LongLink™ communications
- Advanced angle accuracy
- Rugged, waterproof design

The PS is a professional grade robotic total station. Advanced design provides an on-board data collection interface, exclusive LongLink communication, and an incredibly powerful EDM.

Work directly on the bright, color touchscreen or with the alpha-numeric keyboard, to achieve higher levels of production with MAGNET® Field on-board software. From building layout to earthwork volumes, and land surveying or control of your machines on site, the PS is the productive choice on a variety of applications.

A world's first – TSshield™

Topcon is proud to offer another world's first technology in all PS Series total stations – TSshield. Every instrument is equipped with a telematics-based multi-function communications module providing the ultimate security and maintenance capabilities for your investment.

If the activated instrument is lost or stolen, send a coded signal to the instrument and disable it. This feature secures the total station anywhere in the world.

In the same module you have daily connectivity to cloud-based Topcon servers that can inform you of available software updates and firmware enhancements.

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.



LongLink™

The exclusive LongLink™ communications functionality in every PS Series model provides operational capabilities never before offered in a robotic total station. With a 600 m wireless communication range, you can now operate the field controller from the “smart-spot” of the crew, the prism pole. Topcon's new LongLink technology brings a whole new level of flexibility to your manual field crew.



600 m range
LongLink™ functionality

Fast and powerful EDM
1,000 m non-prism range

Advanced angle
accuracy

Rugged waterproof/
dustproof IP65 design

Easy access USB Type
A/B flash drive port

Color TFT QVGA display



World's first
TSshield™ system

Built-in Bluetooth®
technology

Ultra-fast servo
motor technology

PowerTrac™ tracking
technology

Backlit 25 key keyboard and
directional arrow key



Telescope	
Resolving power	2.5"
Magnification	30x
Angle Measurement	
Min. Resolution/Accuracy	
PS-101	1"
PS-103	3"
PS-105	5"
Tilt Angle Compensation	
Compensation	Dual-axis compensator
Range	±6'
Distance Measurement	
Prism EDM Range	6,000 m
Prism EDM Accuracy	1.5 mm + 2 ppm
Non-Prism Range	1,000 m
Non-Prism Accuracy	2 mm + 2 ppm (0.3 - 200 m)
Measuring Time	Fine: 0.9 sec Rapid: 0.6 sec Tracking: 0.4 sec
Communications	
LongLink™ rover communications*	
USB 2.0 Slot (Host + Slave)	
RS-232C Serial	
General	
Display	Color Touch TFT 240 x 320 Display (Dual Display)
Keyboard	25 keys with illuminator (Single Keyboard)
Battery Operation	Up to 4 hours
Dust/Water Rating	IP65
Wireless Connection	Bluetooth® Class 1
Operating Temp	-20°C to 50°C

* The communication range may vary due to the condition of the area



Ultra-powerful, advanced EDM

- 1,000 m non-prism range
- 6,000 m prism range
- Less than 1- second fine measurement
- Coaxial red laser pointer
- Pinpoint, precise beamspot

Easy access USB 2.0 memory

- Up to 8 GB storage
- Environmentally protected
- Compatible with industry standard USB memory stick

Advanced angle accuracy

- Self-calibration
- Proven high accuracy technology
- Angle encoder "Best-in-Class"

Rugged, waterproof design

- Waterproof/dustproof IP65 design handles the toughest environments
- Magnesium-alloy housing providing stable angle accuracy
- Graphic display and alphanumeric keyboard (standard)



For more information:
topconpositioning.com/ps-series

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