



PS SERIES

ROBOTIC TOTAL STATION





Advanced Design. 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™

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 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.



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

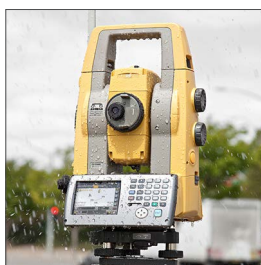
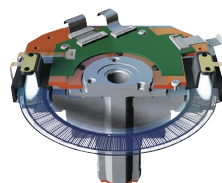
PowerTrac™ tracking
technology

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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