



# OS SERIES

ON-BOARD  
TOTAL STATIONS





## On-Board Total Stations

- Advanced security and maintenance with TSshield™
- MAGNET® Field on-board
- Exclusive LongLink™ communications
- Fast and powerful EDM
- Advanced angle accuracy

### Topcon's OS Series total stations – advanced design with superior technology

The OS is a professional grade compact total station. This 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. The OS total station can be used on a wide variety of applications, from building layout to earthwork volumes, and land surveying, the OS is the productive choice.

### On-board Windows® touchscreen

Running on-board software on the Windows® touchscreen computer increases productivity. The screen is large and bright, so the user can see more software functions and intuitively interact with the screen where needed. Software applications become easier to use and there is no need to hold a field controller in one hand while turning the instrument with the other. The OS has precise tangent locks to keep the angle positions accurate even with touchscreen and keyboard interaction.

Projects move faster by being able to do point collection, description entry, and on-screen calculations. The bright colorful screen provides enough resolution to view points, lines and icons, to help you make faster decisions. All of your data is stored in one spot, safely on-board.



### Exclusive LongLink™

For stakeout and other operations where being at the prism pole with a field controller is critical, Topcon's exclusive LongLink™ functionality allows you to operate a field controller more than 300 m away from the instrument. LongLink™ brings you flexibility you've never had before.



300 m range  
LongLink™ functionality

Easy access, environmentally  
protected USB 2.0 slot  
(Host + Slave)

Electronic leveling  
system

Side mount extra  
long-life battery

Color LCD touchscreen



World's first  
TSshield™ system

500 m non-prism range

Unique IACS angle  
encoder system  
(1" and 2")

Exclusive "STAR-KEY"  
functionality

Tangent lock – Securely  
holds your angle in place



**Angle Measurement**

Min. Resolution/Accuracy

OS-101	0.5"/1"
OS-102	1"/2"
OS-103	1"/3"
OS-105	1"/5"

IACS (Independent Angle Calibration System)

Standard on 1" and 2" models

Compensation Dual-axis compensator

**Distance Measurement**

Prism EDM Range 4,000 m

Prism EDM Accuracy 2 mm + 2 ppm

Non-Prism Range 500 m

Non-Prism Accuracy 3 mm + 2 ppm (0.3 - 200 m)

Measuring Time  
Fine: 0.9 sec  
Rapid: 0.7 sec  
Tracking: 0.3 sec**Communications**

LongLink™ rover communications utilizing Bluetooth® Class 1

USB 2.0 Slot (Host + Slave)

RS-232C Serial

**General**

Display/Keyboard Dual LCD Touchscreen (OS-105 Single Display)

Battery Operation Up to 18 hours

Dust/Water Rating IP65

Wireless Connection Bluetooth® Class 1

Operating Temp -30°C to 60°C\*  
\*Special Arctic and Desert versions available**Easy access USB 2.0 memory**

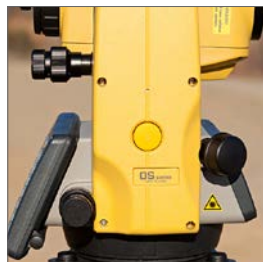
- Up to 8 GB storage
- Environmentally protected
- Compatible with industry standard thumb drives

**Ultra-powerful, advanced EDM**

- 500 m non-prism range
- 4,000 m prism range
- Red/Green guidelight
- Coaxial red laser pointer
- Pinpoint, precise beamspot

**Advanced angle encoder system**

- "Best in Class" 1" angle accuracy
- Incorporates exclusive IACS (Independent Angle Calibration System) on 1" and 2" models
- Self-calibration
- Proven High Accuracy Technology

**EDM trigger key**

- Perfect touch location
- Promotes angle stability
- No torque when measuring on-board
- Water/Dust proof
- Easy for gloved hands



For more information:  
[topconpositioning.com/os-series](http://topconpositioning.com/os-series)

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