**SPECIFICATIONS**

### Angle Measurement

<table>
<thead>
<tr>
<th>Model</th>
<th>Min. Resolution/Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS-101</td>
<td>0.5&quot;/0.1&quot;</td>
</tr>
<tr>
<td>OS-102</td>
<td>1&quot;/0.2&quot;</td>
</tr>
<tr>
<td>OS-103</td>
<td>1'/0.3&quot;</td>
</tr>
<tr>
<td>OS-105</td>
<td>1'/0.4&quot;</td>
</tr>
</tbody>
</table>

**Distance Measurement**

<table>
<thead>
<tr>
<th>Distance Type</th>
<th>Operating Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prism EDM</td>
<td>4000m (ES-107 5000m)</td>
</tr>
<tr>
<td>Non-Prism EDM</td>
<td>500m</td>
</tr>
</tbody>
</table>

**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)
- Battery Operation: Up to 18 hours
- Dust/Water Protection: IP65
- Operating Range: Bluetooth® Class 1
- Temperature: -30°C to +60°C
- Special Arctic Version: -35°C to +60°C

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**MAGNET SOFTWARE**

**MAGNET™**

A family of software solutions that streamlines the workflow for surveyors, contractors, engineers and mapping professionals.

### Field

**Modern User Interface**

MAGNET Field On-board provide a bright, graphical user interface with large touch icons, and bright readable text. The screens not only look good, but provide fast workflows.

**Easy to Use**

The icon and text field interface has been optimized to provide both text and images to indicate what data is needed on each screen. Shortcut buttons and fast access tabs provide a very productive interface.

**Advanced Calculations**

MAGNET Field On-board not only controls the measurements of the OS, but also provides many COGO and adjustment calculations right on the instrument. Stay on-board to complete your work.

### Office Tools

**MAGNET Office Tools**

Directly integrates in Autodesk products utilizing their CAD engine, or as a standalone installation with Topcon's CAD engine. Either way, connect to MAGNET Enterprise directly from your CAD software.

Your local Authorized Topcon dealer is:

topconpositioning.com
Topcon’s new OS Series Total Stations – New Advanced Design with Superior Technology

The OS is a professional grade compact total station. This new 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.

A World’s First! New TSshield™

Topcon is proud to offer another World’s First technology in all OS Series total stations – TSshield™. Every instrument is equipped with a telematics-based multifunction communications module providing the ultimate security and maintenance capabilities for your investment.

If your activated instrument is lost or stolen, you can send a coded signal to the instrument and disable it – Your total station is secure 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.

A World’s First - TSshield™ system

Easy Access USB 2.0 Memory
• Up to 8GB storage
• Environmentally protected
• Compatible with industry standard thumb drives

Ultra-Powerful, Advanced EDM
• 500m non-prism range
• 4000m prism range
• Red/Green Guidelight
• Coaxal red laser pointer
• Flippoint, precise beamspot

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

Automatic Updates
Automatic on-screen alerts of available firmware updates.

Lock/Unlock Theft Deterrent
Advanced security and theft deterrent with remote Lock and Unlock function accessible from TSshield™-on-line.

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 300m away from the instrument. LongLink™ brings you flexibility you’ve never had before.