

## Total Station



- Rugged Waterproof Design
- *Bluetooth*<sup>®</sup> Cable-Free Communication
- High Accuracy and Long Range Measuring
- Enhanced Absolute Encoder
- Versatile Application Functions
- Dual-Axis Tilt Sensor

# GTS-250W Series Total Station

The GTS-250W Series combines Topcon's tradition of rugged field-ready quality and accuracy and places it in an economical, compact design perfect for everyday measuring and positioning applications such as topo and construction layout.

The entry-level value choice GTS-250W – built with Topcon's precision and durability. The GTS-250W provides the construction professional with a dedicated layout solution. Use the on-board software to layout points in the field, confident that with Topcon, you'll be right on target. Use any of Topcon's field controllers running MAGNET™ software tailored to more advanced construction tasks.

The GTS-250W has a backlit 24 key alphanumeric keyboard. This keyboard makes it easier and faster to key in codes and other alpha or numeric fields.

For contractors looking for a full tablet computer, connect the GTS-250W to Topcon's Tesla, or use the FC-2600 with full alphanumeric keyboard, or our touch screen FC-250 cable-free. *Bluetooth®* provides you with flexibility to be up to 10 feet away from the GTS-250W.



## High Accuracy Long Range Measurement

The GTS-250W can measure distance to a single prism at 2,000m (6,600 ft.) and to a triple prism at 2,700m (8,900 ft.).



## Dual-Axis Compensation

The dual-axis tilt sensor automatically corrects the vertical and horizontal angle compensation for miss-leveling error, ensuring accurate and reliable angle readings.



## Application Functions

The GTS-250W has many on-board programs. Remote Elevation for hard to reach overhead objects, Missing Line Distance, Layout for construction staking, and Topography to collect as-builts.



## Rugged Waterproof Design

IP54 weatherproof rating provides protection from dust and rain as well as other inclement weather conditions. Operates in temperatures from -4°F to 122°F (-20°C to 50°C).

## Field Controller

Use one of Topcon's many models of field controllers to get more out of your GTS-250W. Simply mount the field controller on the tripod and connect them with a cable or use *Bluetooth®* for cable-free operation. Now you can have all of your measurements or layout design plans visible on the large colorful touch screen field controller. Using MAGNET™ Field, Field Site, or Field Layout will increase your productivity in the field.



## PRIMARY FEATURES



### Battery Life - Up to 27 Hours

The on-board removable battery allows 27 hours of continuous measurement in the angle/distance mode, and lasts 45 hours on the job for angle measurement only. One battery will be sufficient for most full day staking or data collection.



### KIT COMPONENTS

#### System Components

- GTS-250W Total Station
- Battery and Charger
- Lens Cap and Cloth
- Tool Kit
- Manual CD
- Carry Case



## SPECIFICATIONS

### Telescope

Resolving power	3.0"
Magnification	30x

### Angle Measurement

	Min. Resolution/Accuracy
GTS-252W	2"
GTS-255W	5"

### Tilt Angle Compensation

Compensation	Dual-axis liquid tilt sensor
Range	±3'

### Distance Measurement

Mini Prism	900m (3,000 ft.)
One Prism	2,000m (6,600 ft.)
Three Prism	2,700m (8,900 ft.)
Accuracy	2mm+2ppm (0.3-200m)
Measuring Time	Fine: 1.2 sec
	Coarse: 0.7 sec
	Tracking: 0.4 sec

### Data Management

Display	Graphic LCD 160 x 64
Keyboard	24 Key alphanumeric
Data Storage (Internal)	Up to 24,000 points

### General

Battery Operation	Up to 27 hours
Dust/Water Protection	IP54
Wireless Connection	Bluetooth® Class 1
Operating Temperature	-4°F to 122°F
	(-20°C to 50°C)

For more specification information:  
[www.topconpositioning.com/gts-250](http://www.topconpositioning.com/gts-250)

## SOFTWARE

# MAGNET™

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

## Field

### Modern User Interface

MAGNET Field provides 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.



### Advanced Calculations

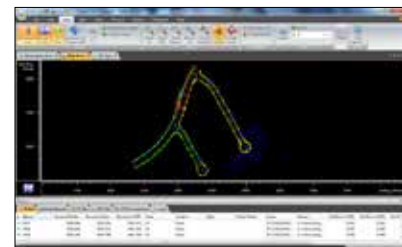
MAGNET Field on-board not only controls the measurements of the GTS-250W, but also provides many COGO and adjustment calculations.



## Office Tools

### MAGNET Office Tools

Directly integrates into Autodesk products utilizing their CAD engine, or as a standalone installation with Topcon's MAGNET Office Site and MAGNET Office Topo.



7400 National Drive • Livermore • CA 94550  
 (925) 245-8300

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