TOPCON

GTS-250W SERIES

TOTAL STATION

Entry-Level Value Choice Total Station

- Rugged waterproof design
- Cable-free *Bluetooth*® communication
- Repeatable long range measurements
- Enhanced absolute encoder
- Versatile and proven “go to” total station option
- Dual-axis tilt sensor

Quality meets accuracy

The GTS-250 total station series is designed as the economical and compact choice that is proven for everyday usage with 3D positioning projects and applications, such as topographic definitions and construction layout.

The GTS-250W provides the construction professional with a dedicated layout solution. Use the on-board software to layout points in the field, confident you’ll be right on target. Use any of Topcon’s field controllers running MAGNET® software tailored to more advanced construction tasks.

A backlit 24-key alphanumeric keyboard makes it easier and faster to key in codes and other alpha or numeric fields.

For contractors looking for a full tablet computer, drive a GTS-250W with a fully-loaded FC-5000 field computer or reach for a compact and rugged FC-500, either of which are impressive in direct sunlight. Stay in control with a stable wireless *Bluetooth*® communication out to over 10 feet away.

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 it 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.

Battery life – up to 45 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 full day staking or data collection.


Clear bright telescope
Magnification: 30x
Minimum Focus: 1.3 m
Rugged waterproof/
dustproof IP54 design
Backlit 4-line
20-character display
Bluetooth® communication
Ergonomic
detachable handle
Advanced angle accuracy
Data exchange
via RS-232C port
Backlit 24 key
alphanumeric keyboard

Telescope	
Resolving power	3.0"
Magnification	30x
Angle Measurement	
Minimum Resolution/Accuracy	
GTS-252W	2"
GTS-255W	5"
Tilt Angle Compensation	
Compensation	Dual-axis liquid tilt sensor
Range	±3'
Distance Measurement	
Mini Prism	900 m
One Prism	2,000 m
Three Prism	2,700 m
Accuracy	2 mm + 2 ppm (0.3 - 200 m)
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 45 hours
Dust/Water Rating	IP54
Wireless Connection	*Bluetooth*® Class 1
Operating Temp	-20°C to 50°C

Kit components

- GTS-250W total station
- Battery and charger
- Lens cap and cloth
- Tool kit
- Manual CD
- Carry case

High accuracy long range measurement

The GTS-250W can measure distance to a single prism at 2,000 m and to a triple prism at 2,700 m.

Dual-axis compensation

The dual-axis tilt sensor automatically corrects the vertical and horizontal angle compensation for miss-leveling error.

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 -20ºC to 50ºC.

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For more information:
topconpositioning.com/gts-250