

GTS-240NW Series

Total Station



- 24-key Alphanumeric Keyboard
- TopField and Road Onboard Software
- 2.5 sec. Highest Telescope Resolving Power
- Point Guide for Stakeout/Layout
- Laser Plummet for Quick Setup
- *Bluetooth*® Wireless Connectivity
- IP66 Dust and Water Protection
- 10-Hour Operation per Battery

Ideal Tool for Day-to-Day Survey and Layout Tasks

The GTS-240NW series provides unmatched performance and dependability backed by Topcon's industry-leading technologies. Its IP66 dust/water protection and 2.5 sec. telescope resolving power lead the industry in its class. The GTS-240NW series of total stations offer every function needed for day-to-day tasks that include the *Bluetooth*[®] wireless connectivity, the point guide that speeds up stakeout tasks, the laser plummet for quick instrument setup, and many functions.



TopField / Road Software with Alphanumeric Keyboard

The onboard "TopField" and "Road" software dramatically increases efficiency in topo data collection, construction layout, as well as road stakeout tasks. The 24-key alphanumeric keyboard allows for quick inputting of point numbers, codes, attributes, and other necessary data.



Choice of Styles – Onboard Software or Field Controller

With the enhanced functionality, the GTS-240NW allows for data collection and layout works without using an external controller or PC. For the users who prefer to use a field controller, the GTS-240NW provides a *Bluetooth*[®] capability for a convenient cableless connection.

	GTS-243NW	GTS-245NW	GTS-246NW	GTS-249NW
TELESCOPE				
Length	150mm (5.9 in.)			
Objective Lens Dia.	45mm (1.77 in.), EDM 50mm (1.97 in.)			
Magnification	30x			
Image	Erect			
Field of View	1 degree 30 min.			
Resolving Power	2.5 sec.			
Minimum Focus Distance	4.27 ft. (1.3m)			
DISTANCE MEASUREMENT				
Measuring Range	Condition 1/2*		Condition 1/2*	
Mini Prism	3,300 ft. (1,000m) / -		3,000 ft. (900m) / -	
1 Prism	9,900 ft. (3,000m) / 11,500 ft. (3,500m)		6,600 ft. (2,000m) / 7,500 ft. (2,300m)	
3 Prisms	13,200 ft. (4,000m) / 15,400 ft. (4,700m)		8,900 ft. (2,700m) / 10,200 ft. (4,700m)	
Measuring Accuracy	±(2mm + 2ppm x D)m.s.e.		±(3mm + 3ppm x D)m.s.e.	
Measuring Time				
Fine mode 1mm (0.005 ft.)			1.2 sec. (Initial 4.0sec.)	
Fine mode 0.2mm (0.001 ft.)			2.8 sec. (Initial 5.0sec.)	
Coarse mode 1mm/10mm (0.005/0.02 ft.)			0.7 sec. (Initial 3.0sec.)	
ANGLE MEASUREMENT				
Method	Absolute Reading			
Detecting System	H: 2 sides V: 1 side		H: 1 side V: 1 side	
Minimum Reading	1 sec. / 5 sec. (0.2mgon / 1mgon)		5 sec./10 sec. (1mgon / 2mgon)	
Accuracy	3 sec. (1mgon)	5 sec. (1.5mgon)	6 sec.(1.8mgon)	9 sec. (2.7mgon)
Diameter of Circle	71mm (2.8 in.)			
Display	Graphics LCD 160 x 64 Dots with backlight, 20 characters x 4 lines			
Keyboard	Alphanumeric, 24 keys			
TILT CORRECTION				
Tilt Sensor	Dual axis		Single axis	
Method	Liquid Type			
Compensating Range	±3 min.			
Correction Unit	1 sec. (0.1mgon)			
OTHERS				
Plummet	Laser Plummet (Red Laser Diode, Wavelength 633nm, Class 2 laser)			
Internal Memory	Max. 24,000 points			
Interface	RS-232C / <i>Bluetooth</i> [®]			
Instrument Height	176mm (6.93 in.)			
LEVEL SENSITIVITY				
Circular Level	10 min./2mm			
Plate Level	30 sec./2mm		40 sec./2mm	
DIMENSION	336(H) x 184(W) x 172(L) mm (13.2(H) x 7.2(W) x 6.8(L) in.)			
WEIGHT				
Instrument (with battery)	4.9kg (10.8 lbs)			
Plastic Carrying Case	3.4kg (7.5 lbs)			
ENVIRONMENTAL				
Dust and Water Protection (IEC 60529)	IP66 (with BT-52QA installed)			
Operating Temperature	-20°C to +50°C (-4°F to +122°F)			
BATTERY BT-52QA				
Operating Time				
Distance and Angle Measurement	About 10 hrs / About 8.5 hrs w/ <i>Bluetooth</i> [®] connection			
Angle Measurement Only	About 45 hrs			

*Condition 1 : Slight haze with visibility about 20km (12.5 miles), moderate sunlight with light heat shimmer.

*Condition 2 : No haze with visibility about 40km (25 miles), overcast with no heat shimmer.