




Reflectorless Total Station: GTS-1202R, GTS-1205R

Features

1. Wide applications: Angle measurement, Distance measurement, Coordinate measurement, Area measurement, Eccentricity measurement, Height-difference measurement, Offset, Layout, inaccessible-points height measurement...
2. Users can set up their preferred surveying programmes to meet their special needs
3. Installed with Laser Pointer for quick targeting and precise measuring
4. Built-in Laser Plummet for efficient setting up on surveying point, and Optical Plummet optional
5. Large internal memory up to 50000 points and optional external SD Card (up to 16G) for secure and prolonged surveying
6. Auto-compensation function for monitoring the system leveling and eliminating leveling errors
7. Multilingual: English, French, Spanish, German, Portuguese, Turkish
8. Ideal for professional surveyors

Specifications:

Model		GTS-1202R	GTS-1205R
Angle Measurement			
Accuracy		2"	5"
Measurement Mode		Absolute Encoding	
Measuring Units		100%, 360°, 400gon, mil	
Minimum Reading		Optional: 1", 5" or 10"	
Measurement Time		0.1sec	
Diameter of Circles (HZ and V)		79mm	
Auto-compensation			
Compensation Style		Double Axis	
Compensation Range		± 3'	
Compensation Accuracy		± 1"	
Telescope			
Magnification		30 X	
Image		Erect	
Objective Aperture		45mm	
Tube Length		150mm	
Field of View		1° 30'	
Resolution Power		4"	
Shortest Focusing Distance		1.5m	
Distance Measurement (under good weather conditions)			
Measuring Accuracy		± (2mm+2ppm × D)	± (3mm+2ppm × D)
Measuring Range	Reflectorless	350m	
	w. Retro Sheet	600m	
	w. Single Prism	up to 7500m by using 2"-3" Single Prism up to 5000m by using 4"-5" Single Prism	
Measuring Time	Fine Mode	1.8sec (repeated) (initial 2.5sec)	
	Rapid Mode	0.9sec (repeated) (initial 2.5sec)	
	Tracking mode	0.4sec (initial 1.6sec)	
Minimum Measuring Display		1mm (Fine Mode, Rapid Mode, Tracking Mode)	
Max Display		Distance: 4999.999; Coordinates: 9999999.999	
Distance Measuring Unit		in Metric or English System	
Atmospheric Correction		Automatic correction by inputting parameters	
Prism Constant Correction		Automatic correction by inputting parameters	
Communication (Data Transmission)			
LCD and Keyboard		2 sided, Black and White; Pixel 192 × 64; graphic, numeric keys and functional Keys (26)	

Data Interface	RS-232, USB	
Data Format	ASCII, DXF, CSV, PTS	
Memory		
Internal	Standard: 50000 Points	
External	Optional: 16G SD Card	
Laser Plummet (built-in, default)		
Laser Source	630-670nm, Class II; output: <0.4mW	
Dot Diameter	≤3mm at 1.5m	
Accuracy	± 1.5mm at 1.5m	
Optical Plummet (optional)		
Image	Erect	
Magnification	3 ×	
Field of View	5°	
Focusing Range	0.5m-∞	
Level (Bubble, Vial)		
Plate Level	30"/2mm	
Circular Level	8'/2mm	
Power Supply		
Adaptor (Charger)	Model: CHR-600; Input: 100-240v, 50-60Hz	
Battery Type (Optional)	BDC18H; Rechargeable Ni-H; 1.80Ah, DC7.2v	
Operating Time	BDC18H; approx. 4.5hrs for distance and angle measurements	
Ambient Conditions		
Operating Temperature	20°C ~ 50°C	
Storage Temperature	20°C ~ 55°C	
Waterproof and Dustproof	IP x 4	
Standard Accessories	Adaptor (incl. Power Cable), BDC18H Batteries (2pcs), 16G SD Card Data-transmission Cable DTC-600, Rain Cover, Tools Bag, User Manual, Plastic Carrying Case PCC-600	
Recommended Tripod	Please refer to "Surveying Tripods"	
Packing Details	Instrument Dimensions: 190mm x 210mm x 350mm	
	Instrument Net Weight: 6Kg	
	1pc per Carton; G.W.: 13kg per Carton; Dimensions per Carton: 0.12cbm (0.55cm x 0.38cm x 0.56cm)	

Note: To improve quality and performances, the Specifications would be subject to change without prior notice.

