

PULSE TOTAL STATION

GPT-6000C series

NEW



New Standard for Pulse Total Station GPT-6000C series

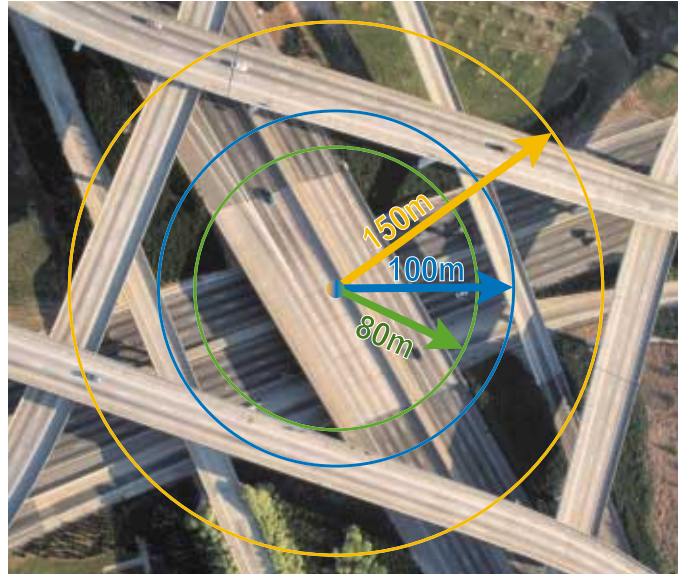


Topcon, the leader in the surveying instruments field, now offers the most advanced technology that provides significant measuring performance and built-in MS-DOS® operating system in Reflectorless Total Station that makes use of state of the art laser pulse technology. Distances can be measured without the use of prisms and long distance measurements can be achieved when using a reflector.

FEATURES

Long Range of 492 ft. (150 m) In Non-Prism Mode and 22,900 ft. (7,000 m) with Single Prism

Topcon's unique pulse laser technology has made it possible for GPT-6000C Series to measure a long range of 492ft. (150m) in reflectorless mode (target: white surface), and 22,900ft. (7,000m) with a single prism.



High Speed Non-Prism Measurement of 0.3 seconds

Due to the specialties of pulse laser technology, measurement is virtually instantaneous (0.3 sec. in tracking mode and 1.2 sec. in fine mode.)

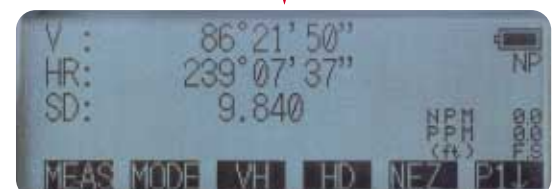
Since a Class 1 invisible laser is used, the operation is completely safe for operation in public areas.

Simple Operation for Dual Measurement Types

Topcon adds a non-prism measurement function to Total Station GPT-6000C Series. Depending upon the field application you can change from prism to non-prism measurement mode easily with a simple



Prism Mode



Non-Prism Mode

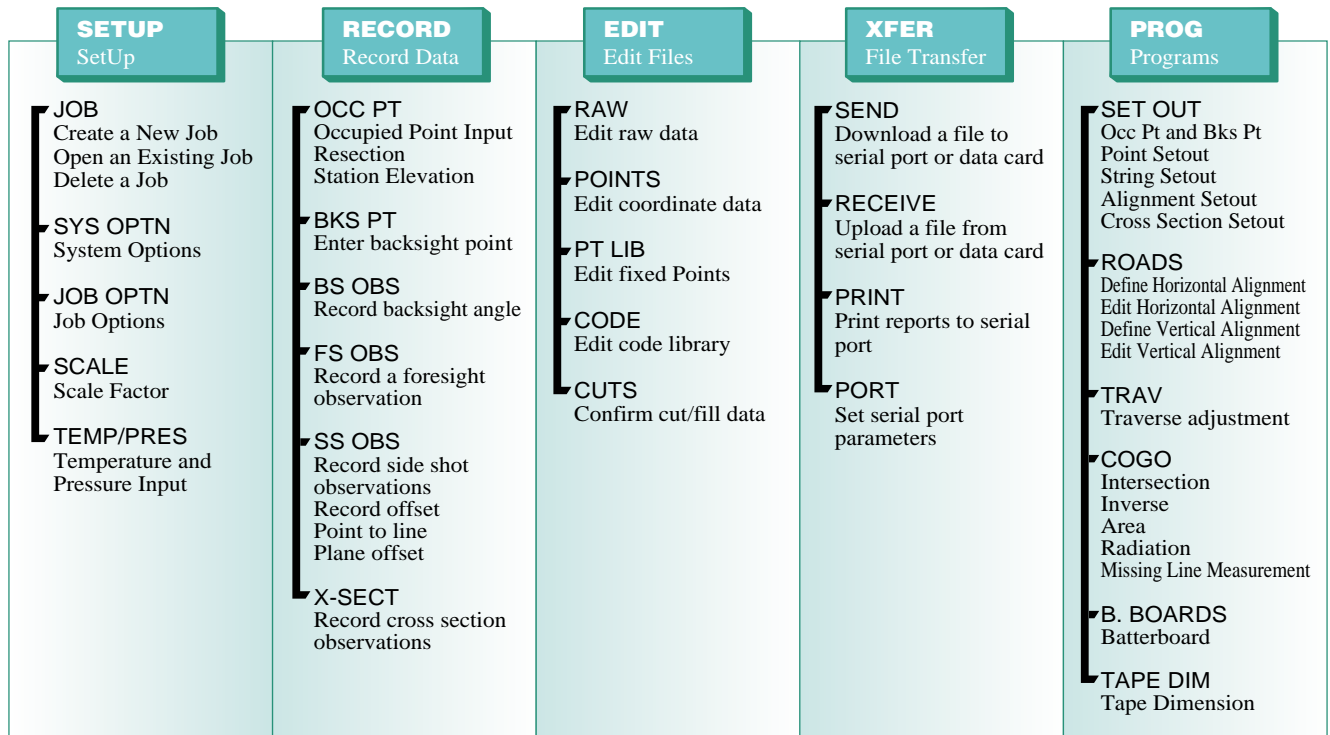
High Productivity with Standard Survey Program

The GPT-6000C series has a standard pre-installed basic application program “Standard Survey 600” which takes advantage of the large memory and enhanced graphic display.

Standard Survey Software Features

- The measured coordinates can be displayed in the measurement screen when recording.
- When setting out, points can be displayed in graphics on the display.
- Code library is improved. A layer table is created and each code is managed in its specified layer.

MENU STRUCTURE DIAGRAM



STANDARD COMPONENTS



GPT-6000C series.....1 each	Silicon cloth1 each
Battery BT-50Q2 each	Plastic rain cover1 each
Battery charger BC-27BR (120V)	Plumb bob set1 each
or BC-27CR (230V)1 each	Lens cap.....1 each
Tool kit with case1 set	Sun shade1 each
Plastic carrying case1 each	Instruction manual.....1 each

OPTIONAL ACCESSORIES

● Trough compass-6



● Diagonal eyepiece-10



● Solar filter-6



● Solar reticle-6



FEATURES

Survey Anywhere With GPT-6000C Series

Non-prism Total Stations are highly effective when measuring to points where it is dangerous, or difficult, to place prisms directly, and when job efficiency is the first priority.



Other Applications

Mortgage/Cadastral/Real Estate

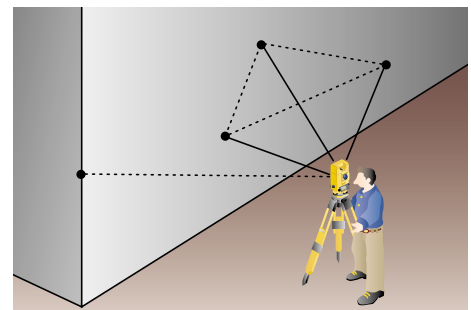
- Topo survey
- Stake Out
- Structural Deformation Monitoring



Plane Offset Program

Topcon's exclusive "Plane Offset Program" is standard for all GPT products, and solves any ambiguity with just measuring three (3) random points on a wall or plane to establish a known plane. Then sight the unknown point on the plane and the GPT calculates coordinates and distance value of the desired point.

With the "TOPCON Plane Offset Program", you can measure to the edge or to the corner of buildings and structures precisely.



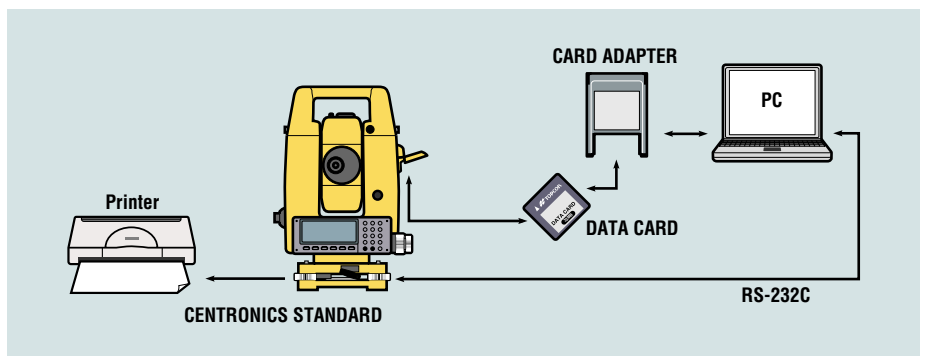
CompactFlash™ Card System

The Topcon GPT-6000C series is compatible with 16MB/32MB CompactFlash™ Memory Card. The 16MB/32MB CompactFlash™ card is available for the memory storage exceeding the instrument's internal memory capacity of 320KB.



Data Communication System

The combination between MS-DOS® system and the CompactFlash™ Memory Card helps with File compatibility when any PC is fitted with a PC Card Slot, or external data card reader.



Toughest durability against the environment-dustproof/waterproof IP54

The Topcon GPT-6000C series will stand up any wet weather or dusty jobsite condition that can occur in the field, giving the benefit of not experiencing down time due to inclement weather. The dustproof/waterproof protection (IP54) of the Topcon GPT-6000C series allows the instrument to be used in most all conditions!!

* Degree of protection against water for the Topcon's GPT-6000C series is based on the IEC60529 standard, defined as "protected against splashing water". Also the Topcon GPT-6000C series complies with "Dust protected" of the IEC60529 standard as to degree of protection against solid foreign objects.



SPECIFICATIONS

	GPT-6001C	GPT-6002C	GPT-6003C	GPT-6005C		GPT-6001C	GPT-6002C	GPT-6003C	GPT-6005C
TELESCOPE					Correction Unit	1" (0.1mgon)			
Length	150mm				COMPUTER UNIT				
Objective Lens Dia.	45mm (EDM 50mm)				OS	MS-DOS ver. 3.22			
Magnification	30×				Internal Memory				
Image	Erect				System memory	EEPROM 512KB			
Field of View	1°30'				Main memory	RAM 640KB			
Resolving Power	2.5"				Data memory	RAM 320KB			
Min. Focus Distance	4.29 ft. (1.3m)				Program memory	EEPROM 512KB			
DISTANCE MEASUREMENT					Application program memory	EEPROM 2MB			
Measuring Range	(Target: White wall)				Display	Graphics LCD 40 characters x10 lines (240x80dots)w/backlight			
Non-prism mode	9.8 to 492 ft. (3 to 150m)				Calendar Clock	Provided			
In low light condition and without sun glare on target	Measurement range for other objects depends on surface texture				Card System	CompactFlash™ Card (Type 1) (up to 32MB) Surveying data (Dist, And, Coordinate) Setting out coordinate			
Prism mode					Interface	Serial I/F	For computer: RS-232C (6 pin)		
1 prism (Condition 1)	22,900 ft. (7,000m)				Parallel I/F	For printer: Centronics Standard (12 pin)			
Condition 1: Sight haze with visibility about 20km (12.5 miles) moderate sunlight with light heat shimmer.					OTHERS				
Measurement Accuracy					Instrument Height	182mm			
Non-prism mode	(Diffusing Surface)				Level Sensitivity				
3 to 25m (9.8 to 82 ft)	±(10mm) m.s.e.				Circular Level	10"/2mm			
25m or more (82 ft or more)	±(5mm+2ppm×D*) m.s.e.				Plate Level	30"/2mm			
Prism Mode	±(3mm+2ppm×D*) m.s.e.				Optical Plummet				
Least Count in Measurement					Magnification	3×			
Fine measurement mode	0.005 ft. (1mm)/0.001 ft. (0.2mm)				Focusing Range	0.5m to infinity			
Coarse measurement mode	0.005 ft. (1mm)				Image	Erect			
Tracking measurement mode	0.02 ft. (10mm)				Laser Plummet	Option			
Measurement Display	11 digits: max. display 9999999.9999				Point Guide	Provided			
Measuring Time					Dimension	343mm(H)×230mm(W)×178mm(L)			
Fine measurement mode	1mm: Approx. 1.2 sec. (Initial 3.0 sec.)				Weight				
0.2mm: Approx. 3.0 sec. (Initial 4.0 sec.)					Instrument (with battery)	13.3 lbs.(6.0kg)			
Coarse measurement mode	Approx. 0.5 sec. (Initial 2.5 sec.)				Plastic carrying case	8.2 lbs.(3.7kg)			
Tracking measurement mode	Approx. 0.3 sec. (Initial 2.5 sec.)				Durability				
Atmospheric Correction Range	-999.9ppm to +999.9ppm, in 0.1ppm increments				Dust/Water Protection	IP54			
Prism Constant Correction Range	-99.9mm to +99.9mm, in 0.1mm increments				Ambient Temperature	-4°F to +122°F (-20°C to +50°C)			
ANGLE MEASUREMENT					BATTERY BT-50Q				
Method	Absolute Reading				Output Voltage	7.2 V			
Horizontal	2 sides				Capacity	2.7 Ah (Ni-MH)			
Vertical	2 sides				Maximum operating time at +68°F (+20°C)				
Minimum Reading	0.5"/1" (0.1/0.5mgon)	1"/5" (0.2/1mgon)			Including Distance Measurement	2.7 hours			
Accuracy**	1" (0.3mgon)	2" (0.6mgon)	3" (1.0mgon)	5" (1.5mgon)	Angle measurement only	14 hours			
Diameter of circle	71mm				Weight	0.7 lbs. (0.3kg)			
TILT CORRECTION					BATTERY CHARGER BC-27BR/BC-27CR				
Type	Dual axis				Input Voltage	AC 120V (BC-27BR), AC 230V (BC-27CR)			
Method	Liquid type				Frequency	50/60Hz			
Compensating Range	±4'				Recharging time (at +68°F/+20°C)	1.8 hours			
					Ambient Temperature Range	+50°F to +104°F (+10°C to +40°C)			
					Weight	1.1 lbs. (0.5kg)			

* D: measuring distance (mm) ** Standard deviation based on DIN18723.

- Designs and specifications herein are subject to change without notice.
- CompactFlash™ is a trademark of SanDisk Corporation.

Important In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.



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