



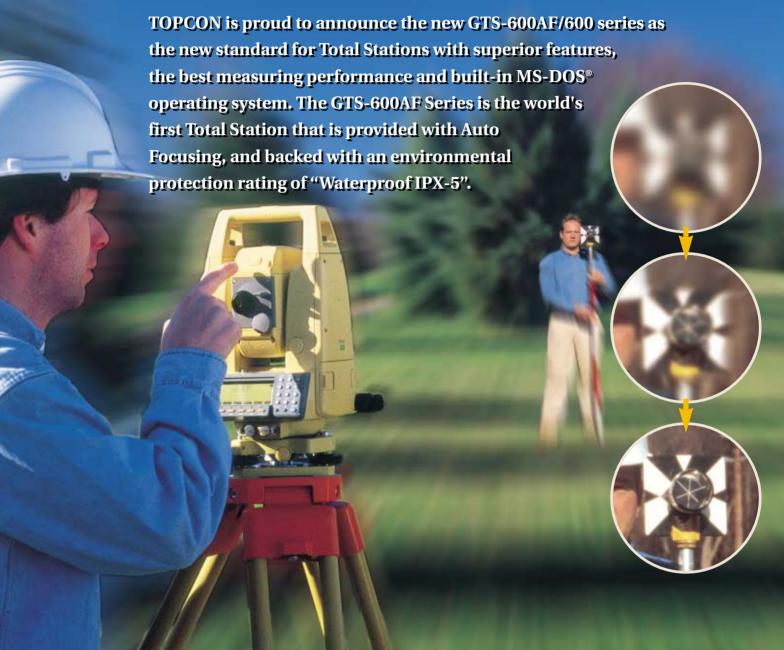
MELECTRONIC TOTAL STATION

GTS-600AF/600 series





CREATING NEW STANDARDS AGAIN TOPCON GTS-600AF/600 SERIES!



AUTO FOCUSING FUNCTION (GTS-600AF) WORLD'S FIRST for Total Station

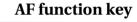
The GTS-600AF Series is the world's first Total Station that is provided with Auto Focusing technology. Just roughly collimate a prism using the sighting scope on the telescope and all you have to do is to press the "AF" function key. Immediately the instrument will search the point and automatically focus on the target prism. The "Auto Focusing Function" is available by a simple keystroke and will increase productivity by eliminating manual focusing time. (Conventional manual focusing is also selectable.)



Unprecedented features for superior operational ease

Superior Basic Function for measuring distance & angle

The GTS-600AF/600 series is provided with a measuring distance range of 3,000 meters / 1 prism. As for distance measuring time, data updates at a rate of 1.3 seconds in the fine measurement mode. (0.7 seconds coarse mode and 0.4 seconds tracking mode). This shorter distance measurement time will allow you to increase efficiency and productivity in the field.



After roughly collimating a prism, just press the AF key to get the prism in focus.

Manual focus knob

Sophisticated Design

The GTS-600AF/600 series has the sophisticated design for superior operational ease with a large graphic display, alpha/numeric and function key operations and Icon menu. Built-in MS-DOS® and the graphic display make it possible to adapt to various languages. Also new Ni-MH on-board battery system allows its compact size with high capacity.



Laser Plummet

The laser plummet located in the alidade is standard for the GTS-600AF/600 series. With a clearly visible spot on the ground, you can set up the instrument fast and easy. As an option in place of the laser plummet the GTS-600AF/600 series can have the conventional optical $3\times$ plummet.

2MB Capacity for Application Programs

The GTS-600AF/600 series has the program memory capacity of 2MB for various larger application programs. And also the instrument has an internal memory capacity of 320KB, which makes it possible to store the coordinate data of approx. 5,000 points.

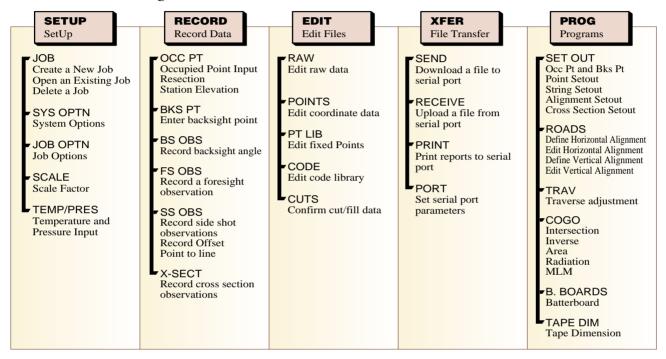


High Productivity with Standard Survey 600 Program

The Topcon GTS-600AF/600 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 600 Software Features

Menu Structure Diagram



STANDARD COMPONENTS



GTS-600AF/600 series	I each
Battery BT-50Q	2 each
Battery charger BC-27BR (120V)	
or BC-27CR (230V)	I each
Tool kit with case	l set
Plastic carrying case	I each

Silicon cloth	1 each
Plastic rain cover	1 each
Plumb bob set	1 each
Lens cap	1 each
Instruction manual	1 each

OPTIONAL ACCESSORIES

Trough compass-6



Diagonal evepiece-10



Solar filter-6



Solar reticle-6



SUPERB DURABILITY AGAINST ENVIRONMENT-WATERPROOF

The new GTS-600AF/600 Series can stand up to any wet weather condition that can occur in the field, giving the great benefit of not experiencing down time due to inclement weather. Topcon has provided the world's first Auto Focus, waterproof (IPX5) total station with a MS-DOS® operating system.



* Degree of protection against water for TOPCON's GTS-600AF/600 Series is based on the standard IEC529, defined as "Water projected in jets" against enclosure from any direction shall have no harmful effects. (IPX5)

Built-in MS-DOS® Operating System

The GTS-600AF/600 Series has an MS-DOS® operating system, which makes it possible to develop or modify application programs for any surveying job. As a result, you can have your own customized instrument suitable for your particular needs.

SPECIFICATIONS

	GTS-601/AF	GTS-602/AF	GTS-603/AF GTS-605/AF		GTS-601/AF GTS-602/AF GTS-603/AF GTS-605/AF
Telescope			Compensating range	±3'	
Length	150mm			Correction unit	1" (0.1mgon)
Objective lens diameter	45mm (EDM: 50mm)		Computer unit		
Magnification	30×		OS	MS-DOS VER.3.22	
Image		Ere	ct	Internal Memory	
Field of view	1°30′		System memory	FEEPROM 512KB	
Minimum focusing	1.3m	(2.0m: durin	g Auto Focusing)	Main memory	RAM 640KB
Distance measurement			· · · · · · · · · · · · · · · · · · ·	Data memory	RAM 320KB
Condition 1				Program memory	FEEPROM 512KB
1 prism	3,000m (9,900ft)		Application program memory	FEEPROM 2MB	
3 prisms	4,000m (13,200ft)		Display	Graphics LCD 40 character × 10lines (240 × 80 Dots) w/backlight	
9 prisms		5,000m (1	6,400ft)	Calendar Clock	Provided
Condition 2			Others		
1 prism		3,500m (1	1,500ft)	Instrument height	182mm (7.2 in)
3 prisms		4,700m (1	5,400ft)	Level sensitivity	
9 prisms		5,800m (1	9,000ft)	Circular level	10'/2mm
Condition 1: Slight haz	Condition 1: Slight haze with visibility about 20km (12.5 miles) moderate sun-		Plate level	30"/2mm	
light with	light with light heat shimmer.		Laser plummet	Standard	
Condition 2: No haze v	Condition 2: No haze with visibility about 40km (25 miles), overcast with no		Optical plummet (option)		
heat shimmer.		Magnification	3×		
Accuracy		±(2mm+2ppi	n · D)m.s.e.	Focusing range	0.5m to infinity
Least count in measurement				Field of view	4°
Fine mode	1m:	1mm (0.005ft)/0.2mm (0.001ft)		Point guide	Standard
Coarse mode	1mm (0.005ft)		Dimension	343mm (H) × 230mm (W) × 178mm (L)	
Tracking mode	10mm (0.02ft)			$[13.5 (H) \times 9.1 (W) \times 7.0 (L) in]$	
Measurement display	11 digit: max. display ±9999999.9999m		Weight		
Measuring time	0 1 7		Instrument (with battery)	600AF: 5.9kg (13.0 lbs.) 600: 5.8 kg (12.8 lbs.)	
Fine mode	11	mm: 1.3 sec.	(Initial 4 sec.)	Plastic carrying case	3.7kg (8.2 lbs.)
	0.2mm: 3.1 sec. (Initial 6 sec.)		Durability		
Coarse mode	0.7 sec. (Initial 3 sec.)		Water protection	IPX-5	
Tracking mode	0.4 sec. (Initial 3 sec.)		Operating temperature	−20°C to + 50°C (−4°F to +122°F)	
	(The initial time will be different by a condition) Batte		Battery BT-50Q (2 batteries supplied)		
Angle measurement				Output voltage	7.2V
Method		Absolute	reading	Capacity	2.7AH (Ni-MH)
Horizontal	2 sides		Maximum operating time at +20°C		
Vertical	2 sides		Including distance measurement	5 hours × 2 (600AF) 6.5 hours × 2 (600)	
Minimum reading	0.5"/1"		1"/5"	Angle measurement only	9 hours × 2 (600AF) 14 hours × 2 (600)
	(0.1/0.5mgon)		(0.2/1mgon)	Weight	0.3kg (0.7 lbs.)
Accuracy*	1"(0.3mgon) 2"(0.6mgon) 3"(1.0mgon) 5"(1.5mgon)			Battery charger BC-27BR/27CR	
Diameter of circle	71mm		Input voltage	AC 120V (BC-27BR), 230V (BC-27CR)	
Tangent screw (V, H)	2 speeds 1 speed		Frequency	50/60Hz	
Tilt correction	ilt correction		Recharging time (at +20°C)	1.8 hours	
Туре	Dual axis		Operating temperature	+10°C to 40°C (+50°F to 104°F)	
Method	Liquid type		Weight	0.5kg (1.1 lbs.)	

- *: Standard deviation based on DIN18723
- Designs and specifications herein are subject to change without notice.

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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