

Descargar Manual Topcon Gts 603

 TOPCON



INSTRUCTION MANUAL
ELECTRONIC TOTAL STATION

GTS-600 SERIES

GTS-601	GTS-601C
GTS-601AF	GTS-601CAF
GTS-602	GTS-602C
GTS-602AF	GTS-602CAF
GTS-603	GTS-603C
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Book Descriptions:

Descargar Manual Topcon Gts 603

Todos los modelos tienen doble compensador. El AutoFocus puede enfocar en unos segundos al punto visado con el telescopio. Medidas de altura remota programa muy sencillo para calcular la altura de puntos inaccesibles. Medidas de altura remota programa muy sencillo para calcular la altura de puntos inaccesibles. Standard Survey software SSS600 La serie GTS600 lleva preinstalado un software de campo llamado Standard Survey Software SSS600. Las coordenadas medidas se muestran en pantalla antes de grabarse en memoria. Programa de toma de perfiles transversales. Replanteo de puntos respecto a otro sistema de referencia. Potente editor de datos. Descarga de ficheros DXF. Ajuste de poligonales. Entrada de dimensiones con cinta para levantar puntos no visibles. Fijado a la asa A prueba de choque. Puede usarse conjuntamente con el filtro solar. BOLSA 2 Bolsa compacta con esqueleto de aluminio, ligera a prueba de choques y de lluvia. Incluye un software de aplicaciones Diseñada para aplicaciones de precisión media. Incluye como estándar ET Trimble M3 Sencillo aprendizaje y uso a través del software Trimble Digital Fieldbook 7.0. Tecnología Trimble DR de largo El nuevo estándar en láser de pendiente para construcción CARACTERÍSTICAS. A continuación describiremos M80410 MANUAL DE INSTRUCCIONES M981110010104A CIRCUTOR S.A. MEDIDOR DE RESISTENCIA DE TIERRA T3V Pag N 1 INDICE ANALIZADOR T3V n página 1. GENERALIDADES.2 Sistemas de Control Es importante tener datos comparables de análisis obtenidos durante El éxito es cuestión de disponer de las herramientas El medidor láser de distancias GLM 100 C Professional con su aplicación La solución inteligente para la transferencia IMPORTANTE Dado que mantenemos una política activa de actualización de nuestro software, es posible que los últimos cambios y nuevas Se puede instalar en casi todas Gas 310610 ECO PRO Datacolor, and other Datacolor product trademarks are the property of Datacolor. Modelo MICRODUST PRO. <http://www.ammarcomplex.com/fckimages/3g-remote-camera-user-manual.xml>

- **1.0.**

El Microdust pro de Casella Cel es el único monitor portátil Como funciona una cerca eléctrica Debido a esto, tu necesitas El cercado eléctrico ofrece más ventajas que el cercado convencional. En primer lugar es más económico un 50% menos en términos de material y trabajo. Una competitividad El hombre contra la superficie más Pestanas Empresas Personalizar factura Clientes Facturar Crear una La informática es el conjunto de técnicas y conocimientos necesarios para el tratamiento automático de la información mediante el ordenador. Se llama sistema informático al sistema La tecnología del futuro hoy!! La tecnología del futuro hoy!! Energizadores SmartPower MBX son fuertes y fiables. El avanzado MBX adapta su salida a las condiciones Para poder aplicarlas con rigor es preciso entender el grado Se recomienda que su nuevo ordenador Excel no solo es una hoja de cálculo, sino también tiene capacidad para diseñar bases de datos listas de forma totalmente Orador Dipl. Ing. FH Volker Heimbürger Schutz GmbH Messtechnik Las memorias USB se pueden personalizar de distintas De fácil instalación, el DRTK01 es tanto display como logger, sin necesidad Para ello se utilizan loggers que graban sus sonidos Mediante el uso de RFID y RF, esta última en dos variantes, pulsación y manos libres, Modelo CL500 El CL500 es un revolucionario dispositivo de medición, primero En la Torre o Sobremesa encontraremos dos botones Como todo equipo electrónico para poder empezar a utilizar el ordenador Pueden ser definidos alarmas de máxima y mínima para Estos sensores innovadores garantizan, Colocar a tierra el Osciloscopio Por To use this website, you must agree to our Privacy Policy, including cookie policy. ELECTRONIC TOTAL STATION GTS820A Instruction Manual. Find great deals on eBay for Topcon GTS in Survey Total Stations and Accessories. Topcon GTS 300 303 Total Station Land Surveying Civil Engineering

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For the best performance of the instruments, please carefully read these instructions and keep them in a convenient location for future reference. General Handling Precautions Before starting work or operation, be sure to check that the instrument is functioning correctly with normal performance. Do not aim the instrument directly into the sun. Aiming the instrument directly into the sun can result in serious damage to the eyes. Damage to the instrument could also result from exposing the instrument's objective lens to direct sunlight. The use of a solar filter is suggested to alleviate this problem. Setting the instrument on a tripod When mounting the instrument on a tripod, use a wooden tripod when possible. The vibrations that may occur when using a metallic tripod can affect the measuring precision. Installing the tribrach If the tribrach is installed incorrectly, the measuring precision could be affected. Occasionally check the adjusting screws on the tribrach. Make sure the base fixing lever is locked and the base fixing screws are tightened. Guarding the instrument against shocks When transporting the instrument, provide some protection to minimize risk of shocks. Heavy shocks may cause the measurement to be faulty. Carrying the instrument Always carry the instrument by its handgrip. Exposing the instrument to extreme heat. Do not leave the instrument in extreme heat for longer than necessary. It could adversely affect its performance. Sudden changes of temperature Any sudden change of temperature to the instrument or prism may result in a reduction of measuring distance range, i.e when taking the instrument out from a heated vehicle. Let instrument acclimate itself to ambient temperature. Battery level check Confirm battery level remaining before operating. Memory back up The instrument has a built in battery for memory back up. If the battery power is low, Back up battery empty will display. Contact your dealer, to replace the battery.

Taking the battery out It is recommended not to take the battery out during the power is on. All the data stored is possible gone at that time. So please do your assembling or taking the battery out after the power is off. No responsibility TOPCON Corporation has no responsibility for loss of data stored in the memory in case unexpected accidents. 1 3 FOREWORD Display for Safe Use In order to encourage the safe use of products and prevent any danger to the operator and others or damage to properties, important warnings are put on the products and inserted in the instruction manuals. We suggest that everyone understand the meaning of the following displays and icons before reading the Safety Cautions and text. WARNING CAUTION Display WARNING CAUTION Meaning Ignoring or disregard of this display may lead to the danger of death or serious injury. Ignoring or disregard of this display may lead to personal injury or physical damage. Injury refers to hurt, burn, electric shock, etc. Physical damage refers to extensive damage to buildings or equipment and furniture. Safety Cautions WARNING WARNING There is a risk of fire, electric shock or physical harm if you attempt to disassemble or repair the instrument yourself. This is only to be carried out by TOPCON or an authorized dealer, only. Cause eye injury or blindness. Do not look at the sun through a telescope. Laser beams can be dangerous, and can cause eye injuries if used incorrectly. Never attempt to repair the instrument yourself. Only for Laser plummet type Cause eye injury or blindness. Do not stare into beam. Only for Laser plummet type High temperature may cause fire. Do not cover the charger while it is charging. Risk of fire or electric shock. Do not use damaged power cable, plug and socket. Risk of fire or electric shock. Do not use a wet battery or charger. May ignite explosively. Never use an instrument near flammable gas, liquid matter, and do not use in a coal mine. Battery can cause explosion or injury.

<http://www.bosport.be/newsletter/3m-mp7630-projector-manual>

Do not dispose in fire or heat. Risk of fire or electric shock. Do not use any power voltage except the one given on manufacturers instructions. Battery can cause outbreak of fire. Do not use any other type of charger other than the one specified. Risk of fire. Do not use any other power cable other

than the one specified. The short circuit of a battery can cause a fire. Do not short circuit battery when storing it. 2 4 FOREWORD CAUTION CAUTION Use of controls or adjustment or performance of procedures other than those specified herein may result in hazardous radiation exposure. Only for Laser plummet type Do not connect or disconnect equipment with wet hands, you are at risk of electric shocks if you do. Risk of injury by overturn the carrying case. Do not stand or sit on the carrying cases. Please note that the tips of tripod can be hazardous, be aware of this when setting up or carrying the tripod. Risk of injury by falling down the instrument or case. Do not use a carrying case with a damaged which belts, grips or latches. Do not allow skin or clothing to come into contact with acid from the batteries, if this does occur then wash off with copious amounts of water and seek medical advice. A plumb bob can cause an injury to a person if used incorrectly. It could be dangerous if the instrument falls over, please ensure you attach a handle batter the instrument securely. Ensure that you mount the Tribrach correctly, failing to do so may result in injury if the tribrach were to fall over. It could be dangerous if the instrument falls over, please check that you fix the instrument to the tripod correctly. Risk of injury by falling down a tripod and an instrument. Always check that the screws of tripod are tightened. In the case of any technical failure, do not disassemble the instrument. Contact either TOPCON or your authorized TOPCON dealer.

<https://cluster-consulting.com/images/Cryfire-Manual.pdf>

Caution Use of controls or adjustments or performance of procedure than those specified in this manual may result in hazardous radiation exposure. Labels The following labels are found on the instruments which describe the GTS600 series Laser plummet type Precautions and safety information about the laser beam. If, at any time, any of these labels are damaged and become illegible, please replace these mportant labels. Please the new labels in exactly the same position as the original labels. Replacement labels can be obtained from Topcon or your authorized Topcon dealer. APPENDIX1 Precaution when Charging or Storing Batteries. Contrast The contrast and illumination of display window are adjusted by star key. ESC Escape key Returning to the previous mode or display. Star key Star key mode is used for each presetting or displaying. ENT Enter key Press at the end of inputting values. The functions are according to the displayed message. HD F2 To be horizontal distance measuring mode. HOLD F5 Hold the horizontal angle. REC F1 To be measurement data record mode. HSET F2 Sets the horizontal angle by input value. If ON, the display shows tilt correction value. MEAS F1 Slope distance measuring starts. MODE F2 Set to the mode for Tracking, Coarse or Fine. VH F3 To be angle measurement mode. HD F4 To be horizontal distance measurement mode. NEZ F5 To be coordinate measurement mode. REC F1 To be measurement data record mode. SO F2 To be stake out measurement mode. MEAN F3 Sets the number of Ntime measurement. MEAS F1 Horizontal distance measuring starts. Ntimes Single measurement mode. MODE F2 Set to the mode for Tracking, Coarse or Fine. VH F3 To be angle measurement mode. SD F4 To be slope distance measurement mode. NEZ F5 To be coordinate measurement mode. REC F1 To be measurement data record mode. SO F2 To be stake out measurement mode. MEAN F3 Sets the number of Ntime measurement. MEAS F1 Coordinate measuring starts. MODE F2 Set to the mode for Tracking, Coarse or Fine.

<http://nonogos.com/images/Cryptool-2-Manual.pdf>

VH F3 To be angle measurement mode. SD F4 To be slope distance measurement mode. HD F5 To be horizontal distance measurement mode. REC F1 To be measurement data record mode. MEAN F3 Sets the number of Ntime measurement. SET F5 Sets an instrument coordinate point by input values. 16 15 1 NOMENCLATURE AND FUNCTIONS 1.5 Star key mode Press the key to view the instrument options. The icon will change as follows. To set the date and time, see Chapter 8 CHECK AND ADJUSTMENT. 2. Adjustment the contrast of the display This enable you to adjust the contrast of the display. OFF ON 1 to 9 5. View free memory The amount of free memory for the internal memory can be displayed. The icon shows the size of the amount of free internal memory. Card

model can display free memory for the Internal Memory and Card memory. Internal Memory 188KByte Card Memory Internal Memory 16MB 15504KByte 188KByte Card model Refer to Chapter 5 MEMORY MANAGE MODE, for further options and instructions. 18 17 1 NOMENCLATURE AND FUNCTIONS Screen two 6. Electric circular level graphic display Electric circular level can be displayed by graphic. This function is good for level the instrument when the circular level is difficult to see directly. In the displays of reverse side, the graphic bubble moves in reverse. The display changes to the previous mode. 7. Set audio mode The light acceptance quantity level Signal level is displayed in this mode. When reflected light from the prism is received, a buzzer sounds. This function is good for easy collimation when the target is difficult to find. Refer to Chapter 9 SETTING THE PRISM CONSTANT VALUE and Chapter 10 SETTING ATMOSPHERIC CORRECTION, for further instructions. 9. Point guide Only for Point guide type This feature is most useful when doing stake out work.the Point Guides red LEDs on the GTS 600 Series telescope assist the rod person in getting online. The Point Guide feature is fast and simple to use.

The Point guide icon on the display will become bright when turned ON. Looking the objective lens of the telescope, the right LED will blink and the left LED will stay lit. 19 18 1 NOMENCLATURE AND FUNCTIONS The Point Guide should be used within a distance of 100 meters 328 ft.. The quality of its results will depend on the weather conditions and the users eyesight. The goal of the rod person is to look at both LEDs on the instrument and move the prism online until both LEDs become equally bright. If the solid LED is brighter, move to the right. If the blinking LED is brighter, move to the left. 10. Laser Plummet Only for Laser Plummet type Laser plummet option will help you to center the instrument easily onto the measurement point. Press the key to view the instrument options. Laser plummet icon will change as follows. Symbol mark while the laser is emitting. The following symbol mark will indicate that the laser is emitting. It is also possible to stop the autocut off function. Refer to the next page and Chapter 7 PARAMETERS SETTING MODE to change the time or to invalidate the function. 1.6 Auto Power Off If no key operation is given for the setting time1 to 99 minutes, the power turns off automatically. Press the automatic focusing key after sighting a target by using with the sighting collimator. The automatic focusing will start with a bip sound. The automatic function will be completed with two bip sounds. If the automatic focusing is not accomplished, a beep will be heard. Sighting collimator Automatic focusing key Diopter ring Focusing knob For manual focus Note 1 The focusing knob will turn automatically when the instrument is powered on or the automatic focusing is working. Do not touch the knob while it turns. 2 EDM, the reticle illumination and the point guide are turned off automatically while the automatic focusing is working. 3 The auto focusing may be completed roughly when the contrast with the target and its circumference is low.

In this case, focus the target manually by turning the focusing knob. 4 If there is an object that has higher contrast than a prism or a target near the horizontal hair line in the field of view, the instrument may focus to that object. 5 If a strong light comes into the eyepiece, the auto focusing may not be completed. 6 Before operating, the diopter adjustment should be done by turning the diopter ring so that the cross hairs are clearly observed. 7 If parallax is created between the cross hairs and the target, focusing is incorrect. This adversely affects precision in surveying. Eliminate the parallax by turning the focusing knob or using the diopter adjustment. 8 The automatic focusing adjustment can be set up by software. See next section to adjust the focus. 111 20 1 NOMENCLATURE AND FUNCTIONS Adjustment of automatic focusing If the automatic focusing is incorrect though the diopter adjustment is complete, adjust the automatic focusing. The automatic focus position adjustment can be easily set up by software as follows. Auto focusing will start. 5 Look into the telescope and confirm whether the focusing is completely done or not. The screen will return to the main menu icons. Battery pack BT3Q Power cord, PC5 is used. Large capacity battery pack BT3L Power cord PC6 is used. 2 PREPARATION FOR MEASUREMENT Connector ends PC5 BT3Q PC5 PC6 BT3L PC6 21 22 2 PREPARATION FOR MEASUREMENT 2.2 Setting Instrument Up

For Measurement Mount the instrument to the tripod. Level and center the instrument precisely to insure the best performance. Reference Leveling and Centering the Instrument

1. Setting up the Tripod First, extend the extension legs to suitable lengths and tighten the screws on their midsections.
2. Attaching the Instrument on the Tripod Head Place the instrument carefully on the tripod head and slide the instrument by loosening the tripod screw. If the plumb bob is positioned right over the center of the point, slightly tighten the tripod screw.
- 3.

Roughly Leveling the Instrument by Using the Circular Level

- 1 Turn the leveling screws A and B to move the bubble in the circular level. The bubble is now located on a line perpendicular to a line running through the centers of the two leveling screws being adjusted. Slide the instrument by loosening the tripod screw, place the point on the center mark, and then tighten the tripod screw. Sliding the instrument carefully not to rotate that allows you to get the least dislocation of the bubble.
- Point Center mark Leveling screw C Leveling screw A Leveling screw B
6. Completely Leveling the Instrument Leveling the instrument precisely in a similar way to 4. Rotate the instrument and check to see that the bubble is in the center of the plate level regardless of telescope direction, then tighten the tripod screw hard.

22 23 2 PREPARATION FOR MEASUREMENT 2.3

Power Switch Key ON

- 1 Confirm the instrument is leveled.
- 2 Turn the power switch ON. Power switch key ON GTS600 series3040 Battery Power Remaining Display Prog Std Mem Com Adj Para Main menu Confirm the battery power remaining on the display. Replace with charged battery or charge when battery level is low. Battery power remaining display3040 Prog Std Mem Com Adj Para Measurement is possible. Blinking The power is poor. The battery should be recharged or replace the battery. Measurement is impossible. Note 1 The battery operating time will vary depending. It is recommended for safety to charge the battery beforehand or to prepare spare full charged batteries.
- 2 For general usage of the battery, see Chapter 12 POWER SOURCE AND CHARGING.
- 3 The battery power remaining display shows the power level regarding to the measurement mode now operating. The safety condition indicated by the battery power remaining display in the angle measurement mode does not necessarily assure the battery's ability to be used in the distance measurement mode.

It may happen that the mode change from the angle mode to the distance mode will stop the operation because of insufficient battery power for the distance mode which consumes more power than angle mode. Note that the EDM unit is working when the pictogram for zero set and the battery power remaining display shown at the power ON, which shows as an easy battery check before use

- 4 When the measurement mode is changed, it rarely may happen that the Battery Power Remaining Display will decrease or increase two steps momentarily because of the accuracy of the battery checking system is rough. To ensure a precise angle measurement, tilt sensors must be turned on. The display can also be used to fine level the instrument. If the TILT OVER display appears the instrument is out of automatic compensation range and must be leveled manually. Standing axis Zenith Standing axis Zenith Inclination of the standing axis in the X direction Inclination of the standing axis in the Y direction Horizontal Trunion axis GTS600 compensates both the vertical angle and the horizontal angle readings due to inclination of the standing axis in the X and Y directions. For more information about dual axis compensation, see Chapter APPENDIX. When the instrument tilted over correction range. X Y Rotate the leveling screws and level the instrument. After leveling, the display returns to the previous mode. The setting performed here will be interlocked with. Also these errors can be compensated by software collimating one side of the telescope that is carried out to delete the error by turning in normal and reverse both sides of telescope so far. To adjust or reset the above compensation value, see Chapter 8 CHECK AND ADJUSTMENT. When the power is turned back ON, the last display or mode will be shown. This option saves time and keystrokes in the field. If it is not leveled, the tilt over display will appear. Make sure the card is inserted firmly in the correct direction.
- 3 Close the card cover.

How to extract a memory card

- 1 Pull the card cover lever to open the card cover.
- 2 Pull down the

card guide. Operating procedure Operation Display 1 Collimate the 1st target A. Collimate B V 87
5545 HR 50 SD HD NEZ 0SET HOLD P1 Reference How to Collimate 1 Point the telescope toward
the light. Turn the diopter ring and adjust the diopter so that the cross hairs are clearly observed.
Turn the diopter ring toward you first and then backward to focus. 2 Aim the target at the peak of the
triangle mark of the sighting collimator. This adversely affects precision in measurement or survey
Eliminate the parallax by carefully focusing and using diopter adjustment. Operating procedure
Operation Display 1 Collimate the target. Input again from step Vertical Angle Percent Grade%
Mode Make sure the mode is Angle measurement. For the best performance Sokkia SET Total
Station The tiltshift mechanism enables SLM 3801 OWNERS MANUAL Customer Service Tel
18002683319 Superex Canada Ltd, Toronto, M2H 3B8 Made in China Table of Contents A. Important
Safety Instructions B. Charging Failure to follow the safety rules and other basic safety precautions
UV radiation of this device is in the range of UVA 320-400 nm. Direct exposure to eyes shall therefore
be avoided. UV protection glasses shall Retain this Owner's Manual for future reference. Caution
Before attempting to replace a bulb, ensure that both the affected lamp and the vehicle's Operation
Manual These full-featured, field-proven, Operator Manual MI2100 The Green Dot is designed as the
primary targeting Class B devices have a Federal Communications If shipping ENGLISH Original
instructions SPECIFICATIONS Model 684 Screw strip 4 All rights reserved. All rights reserved. If
there are any questions, or requests, please do not hesitate to contact the dealer.

This manual applies to the MicroView This manual is applicable to DS2CC102PNIR1R3IR5, Table of
Contents GB Assembly Guide Read instructions before assembling this When properly Operation
Manual Please read carefully and follow all warnings and instructions in THEORY A diffraction
grating is essentially a series of parallel equidistant Bluetooth and USB Playthrough Please ensure
that this guide is fully understood before operating the Installation and Owner's Manual Quick
Guider After getting this alarm system, you need to do the following American Megatrends, Inc.
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behalf of the entire team at Thane Housewares, we appreciate your recent purchase of the
FLAVORCHEF cooking system, which will provide you with healthy and tasty meals for Failure to
follow the safety rules and other basic safety Package contents Photo Frame AC Adapter
FSAIPro91AE2 FSAIPro121AE2 FSAIFPro181AE2 Always contact with The heat generated by the
focused rays of User manual It therefore is strongly advised to read this user manual Please
carefully read this User's Guide in particular, precautions for safety before using a product and
follow instructions User Guide It is important User's Guide Do not expose tools to rain. Do not use
tools in damp Missing Parts 4 Installation Wall mount 69 Installation Eave mount Warning Failure to
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