



High Accuracy & Long Measuring Range

Long distance: 2,000m with Single Prism
Higher accuracy: ±(2mm+2ppm)

Versatile Application Programs

- On-board data collection, Stakeout/Survey, Road Calculation, and many more function.
- Integrated Alphanumeric key realizes the quicker operation
- Large internal memory up to 24,000 pts

Enhanced Absolute Encoder

Adopted absolute encoder, which doesn't require 0 set. Thanks to this encoder, it can be realize stable measurement with less reading error.

Superior Waterproof; Dustproof

Applied to IEC Standard 60529. No worry about sudden bad weather

STANDARD COMPONENTS



GTS-102N(with lens cap)	1 each
On-board Battery BT-G1	2 each
Battery Charger BC-G1C	1 each
Plastic Carrying Case	1 each
Tool kit with case	1 each
Plastic rain cover	1 each
Silicon cloth	1 each

It's time.

Specifications

TELESCOPE

Length	150mm
Lens aperture	45mm(EDM:50mm)
Magnification	30x
Imaging	Erect
Field of view	1°30'
Resolution	3.0"
Minimum focusing distance	1.3m

DISTANCE MEASUREMENT

1 prism	2,000m
3 prisms	2,700m
Measurement accuracy	± (2mm+2ppmxD*) m.s.e

MEASURING TIME

Fine measurement mode	About 1.2 sec. (first 4 sec.)
Coarse measurement mode	About 0.7 sec. (first 3 sec.)
Tracking measurement mode	About 0.4 sec. (first 3 sec.)

ANGLE MEASUREMENT

Accuracy**	2"
Method	Absolute Reading
Detecting system	H: Dual V: Single
Minimum reading	1"
Diameter of circle	71mm

DISPLAY

Display unit	2 sides
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TILT COMPENSATOR

Method	Liquid compensator
Compensating range	±3°

LEVEL SENSITIVITY

Circular Level	30' / 2mm
Plate Level	10' / 2mm

DURABILITY

Water protection	IP54
Ambient temperature range	-20°C~+50°C

BATTERY

Internal battery	BT-G1, 7.2V voltage capacity of 23000 mAh hrs (Ni-MH)
Charger	BC-G1C
Including distance measurement	10 hours
Angel measurement only	45 hours

OTHER

Dimension	336mm(H) x 184mm(W) x 172mm(L)
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Instrument (with battery)	4.9kg
Plastic carrying bag	3.4kg
Instrument height	176mm
Communication interface	Standard RS-232C
Internal Memory	Data acquisition 24000, 24000 coordinates of points

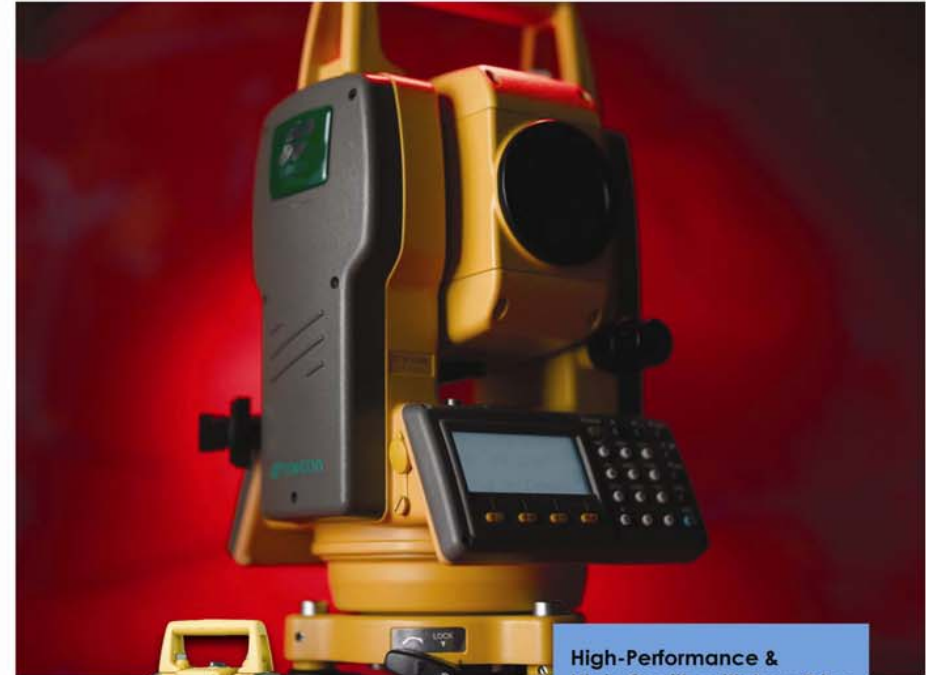
Your local Authorised Topcon Dealer is :

GTS-102N ELECTRONIC TOTAL STATION



GTS-102N

ELECTRONIC TOTAL STATION



High-Performance & High-Quality with Low-Price

- Solid Toughness Body
- Large Display
- Absolute Encoder
- Versatile Field Application Software
- Alphanumeric Key for Quicker Data Input
- Long Life Battery

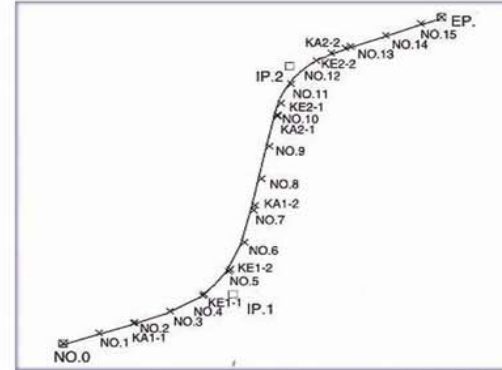
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- **Large Display**
- **Absolute Encoder**
- **Versatile Field Application Software**
- **Alphanumeric Key for Quicker Data Input**
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24 Key Keyboard and Graphical Display

The GTS-102N has a 24 numeric key keyboard built in. This 24 key keyboard makes it easier and quicker to key in codes and other alpha or numeric fields. Besides more flexibility in the keyboard the graphical display on the GTS-102N supports almost any character.



Road Software

Already included in the GTS-100N series, New Road software added. New Road function automatically calculates a complicated spiral curve and a long distance route only by defining the start point, terminal point and a curvilinear element.

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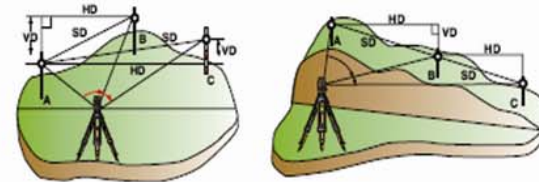
Long distance: 2,000m with single prism
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Missing line measurement (MLM)

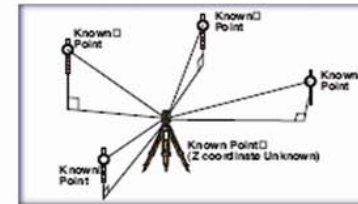
Multiple lines can be drawn between:

- the first point and the last point;
- the last 2 points.

Horizontal distance, difference in height and slope distance is calculated. Coordinate file data and manual input data are available for further use.



Z coordinate of occupied point (benchmark elevation)



The Z-coordinate and direction angle of the instrument is calculated and reset by measuring Z-coordinates of known points (Max. 10 points).

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Optional Accessories



• Diagonal Eyepiece - 6



• Trough Compass - 10



• Solar filter - 6



• Solar Reticle - 6