

TG 300 Mechanical

Reliable, Sturdy, Compact.



- **High angular accuracy**
absolute encoder with 2" accuracy
and continuous angle measurement.
- **Dual-axis compensator**
optoelectronic, + 4' range
with 3" accuracy.
- **Distance measurement**
 - Up to 3500 m with a prism
 - Up to 2000 m with reflector tape
 - Up to 600 m in non-prism mode
 - Accuracy from 2 mm + 2 ppm to 3 mm + 2 ppm

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➤ Integrated features

Class II laser, 2.8" color display, 24-key keypad, USB and Bluetooth and stores up to 40,000 points.

➤ Battery life

2600 mAh battery providing up to 25 hours of angle measurement.

➤ Rugged design:

IP54 rating, operating from $-10\text{ }^{\circ}\text{C}$ to $+50\text{ }^{\circ}\text{C}$ in high-humidity environments.



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TG300 Technical Features

ANGLE MEASUREMENT

Accuracy	2"
Angle measuring way	Absolute encoder, continuous
Minimum display unit	1"

TELESCOPE

Imaging	Upright
Magnification	30*
Field of view	1°30' (2.6m @ 100m)
Shortest focus distance	1.7m
Obj. aperture	44mm
Resolution	2.8"

TILT COMPENSATOR

Compensation mode	Optoelectronic, dual axis
Range	±4'
Accuracy	3"

DISTANCE MEASUREMENT RANGE

Reflector tape	2000m
Non-prism	600m
Single prism	3500m

DISTANCE MEASUREMENT ACCURACY

Prism accurate measurement	2mm+2ppm
Reflector plate	3mm+2ppm
Non-prism	3mm+2ppm

MEASUREMENT TIME

Accurate measurement	0.8s
Fast measurement	0.5s
Tracking	0.3s

LASER BEAM

Accuracy	12x15mm @ 50m approx. 27x27mm @ 100m approx.
Safety	Class II
Output power	0.7-1.0mW(can be adjust)

LEVEL VIAL SENSITIVITY

Plate level	30"/2mm
Circular level	8'/2mm

POWER SUPPLY

Battery	Lithium battery, 2600 mAh
Voltage	7.4v
Low voltage alarm	Alarm 10min then shut down the device
Operating time (angle measurement)	25h
Operating time (angle+ dist. measurement)	12h (meas. every 30s)
Charging time	3h

PHYSICAL SPECIFICATION

Dimensions	193*170*365mm
Weight	5,6 kg (including battery and tribrach)

ENVIRONMENTAL CONDITIONS

Working temperature	-10°C to +50°C
Storage temperature	-30°C to +55°C
Waterproof and dustproof	IP54
Operating humidity	95%

OTHER SPECIFICATIONS

Display	2.8 inch, coloured screen
Keyboard keys	24
Quick measure key	Yes
Interface	USB, BT
Memory storage points	40000
Built-in program	Yes

Specifications are subject to change without notice.
For further information please refer to the user manual.

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