Nikon DTM-322 Total Station

Specifications Sheet

SIMPLE • ACCURATE • VALUE

DISTANCE MEASUREMENT
Range with Nikon specified prisms
Good conditions (No haze, visibility over 40 km (25 miles))
With reflector sheet $(5 \times 5 \text{ cm}) \dots 5 \text{ m}$ to 100 m (16.4 ft to 328 ft)
With mini prism 2.5 cm (1 in) 1,200 m (3,930 ft)
With single prism 6.25 cm (2.5 in)
With triple prism
Normal conditions (Ordinary haze, visibility approx 20 km (12.4 miles))
With reflector sheet $(5 \times 5 \text{ cm}) \dots 5 \text{ m}$ to 100 m (16.4 ft to 328 ft)
With mini prism 2.5 cm (1 in)1,000 m (3,280 ft)
With single prism 6.25 cm (2.5 in)2,000 m (6,560 ft)
With triple prism
Accuracy (Prism/Precise mode ¹) \pm (3+2 ppm × D) mm
Measuring interval ²
Prism mode
Precise mode
Normal mode
Least count
Precise mode
Normal mode
ANGLE MEASUREMENT
DIN 18723 accuracy (horizontal and vertical) 5 "/1.5 mgon
Reading systemPhotoelectric detection by incremental encoder
Circle diameter
Horizontal angleSingle
Vertical angle
Minimum increment (Degree, Gon, MIL6400)

TELESCOPE

Tube length	158 mm (6.2 in)
Image	Erect
Magnification	.33x (21x/41x with optional eyepieces)
Effective diameter of objective	45 mm (1.77 in)
EDM	50 mm (1.97 in)
Field of view	1°20'
Resolving power	2.5"
Minimum focusing distance	1.5 m (4.92 ft)

- 1 \pm (3+3 ppm × D) mm -20 °C to -10 °C, +40 °C to +50 °C (-4 °F to +14 °F, +104 °F to +122 °F)
- Measuring time may vary depending on measuring distance and conditions.
 Battery life specification at 25 °C (77 °F).

Specifications are subject to change without prior notice.

TILT SENSOR

Type	Single-axis
Method	Liquid-electric detection
Compensation range	±3'
Setting accuracy	±1"

COMMUNICATIONS

POWER

Clip-on rechargeable	
battery system 4x AA Ni-MH Batt	ery
Operating time ³	

approx. 6 hours(continuous distance/angle measurement)

approx. 15 hours (distance/angle measurement every 30 seconds) Charging time

Full chargeapprox. 4 hours

GENERAL SPECIFICATIONS

Level vials	
Sensitivity of Plate level vial	. 30"/2 mm
Sensitivity of Circular level vial	. 10′/2 mm
Optical plummet	

Display..... Single side, graphic LCD (128 x 64 pixel) Point memory......10,000 records

Dimensions (W \times D \times H) 168 mm \times 173 mm \times 335 mm (6.6 in × 6.8 in × 13.2 in) Weight (approx.)

Main unit (without battery)	4.8 kg (10.6 lb)
Battery	. 0.2 kg (0.4 lb)
Carrying case	. 2.4 kg (5.3 lb)

ENVIRONMENTAL

LITTINOMINEMIAL
Ambient temperature range20 °C to +50 °C (-4 °F to +122 °F
Atmospheric correction
Temperature range40 °C to +55 °C (-40 °F to +131 °F
Barometric pressure 400 mmHg to 999 mmHg/533 hPa to
1,332 hPa/15.8 inHg to 39.3 inHg
Dust and water protection IP59

CERTIFICATION

Class B Part 15 FCC certification, CE Mark approval, C-Tick.





CONTACT DETAILS

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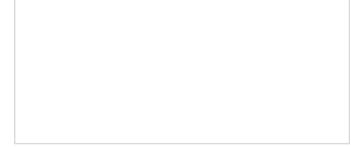
Gon: 0.2/1/2 mgon

MIL6400: 0.005/0.02/0.05 mil

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