Theodolites

- 5", 7" and 10" accuracies available
- Four models to choose from: NF-100/101/102/103
- Accurate, affordable, easy-to-use
- Ergonomic keypad
- One-touch function keys
- Large, backlit LCD display
- NE-100/101 models are water-resistant
- NE-102/103 models are waterproof

Designed for general construction and survey applications, Nikon NE-100 Series electronic digital theodolites give you accurate measurements in an affordable, easy-to-use platform. Each of the four models has an ergonomic keypad with one-touch keys for all functions, and a large backlit LCD display helps you work productively in the field.

You can instantly convert vertical angles to percent of grade, reset the horizontal angle to zero and lock the horizontal angle displayed on the LCD while you reposition or repeat a measurement. Angle accuracies differ between the models. The NE-100 offers 10" angle accuracy, while the NE-101 offers 7". Both the NE-102 and 103 models offer 5" angle accuracy with the NE-103 featuring vertical axis compensation. NE-102 and NE-103 also have a rear display and keypad.

NE-100 series theodolites feature five easy-to-use, one-touch keys: four to perform all common functions and a fifth to control the backlit LCD display and reticle illumination. NE-100 Series theodolites feature a built-in reticle illuminator and backlit LCD

SPECIFICATIONS	NE-100	NE-101	NE-102	NE-103
ANGLEMEASUREMENT				
Reading system	photoelectric incremental encoder	photoelectric incremental encoder	photoelectric incremental encoder	photoelectric incremental encoder
Grcle diameter	79 mm (3.1 in)	79 mm (3.1 la)	79 mm (3.1 in)	79 mm (3.1 in)
Unit of reading	degree/gon/mil	degree/gon/mil	degree/gon/mil	degree/gon/mil
Minimum digital reading	10/20", 2/5 mgon, 0.05/0.1 mil	5/10", 1/2 mgon, 0.02/0.05 mil	5/10", 1/2 mgon, 0.02/0.05 mil	5/10", 1/2 mgon, 0.02/0.05 mil
Accuracy (DIN 18723)	10"/3 mgon	7"/2 mgon	5"/1 mgon	5"/1 mgon
TELESCOPE				
Effective diameter of objective	45 mm (1.8 in)			
Magnification	30x	30x	30x	30x
Image	erect	erect	erect	erect
Field of view	1°20' (2.3 m @ 100 m/2.3 ft @ 100 ft)	1°20' (2.3 m @ 100 m/2.3 ft @ 100 ft)	1°20' (2.3 m @ 100 m/2.3 ft @ 100 ft)	1°20' (2.3 m @ 100 m/2.3 ft @ 100 ft)
Minimum focusing distance	0.7 m (2.3 ft)			
Stadia multiplier constant	100	100	100	001
Stadia additive constant	0	0	0	0
Reticle illuminator	Yes	Yes	Yes	Yes
AUTOMATIC VERTICAL COMPENSATOR				
Type				liquid-electric detection
Working range		_		±3′(out-of-range warning provided)
DISPLAY/KEYPAD				
Front				
Туре	dot-matrix LCD (20 characters x 2 lines)			
Backlight	1-level illumination	1-level illumination	1-level illumination	1-level illumination
Keypad	5 buttons	5 buttons	5 buttons	5 buttons

