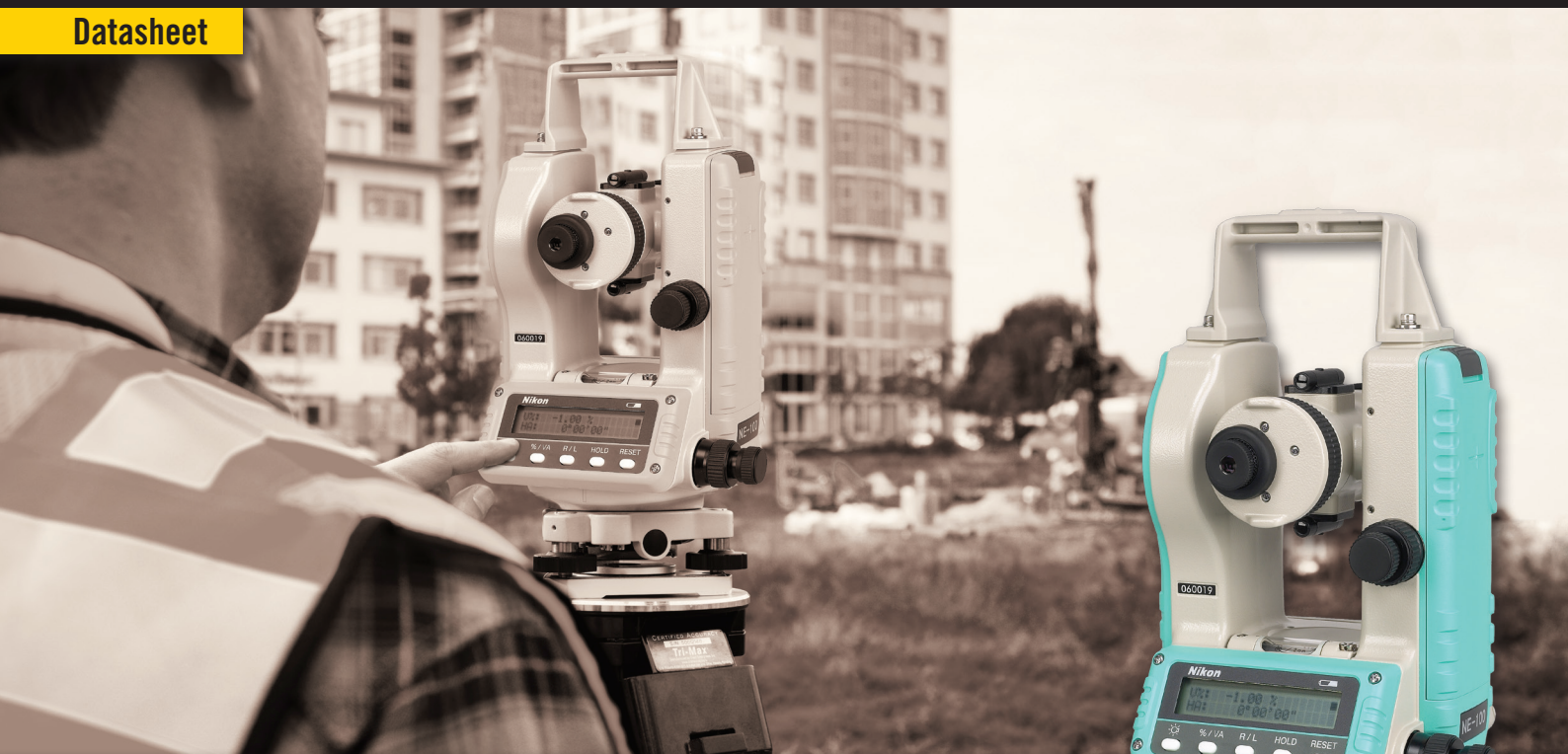


Nikon NE-100 and NE-101 Theodolites



Datasheet



Nikon Quality You Can Trust

Key Features

- 7" and 10" angle accuracies
- Large display and keyboard
- Alkaline (standard AA) batteries with battery life indicator
- Water and dust resistant
- Illuminated display and telescope
- Superior Nikon optics
- Small carrying case

Nikon NE-100 and NE-101 Construction Theodolites

Ease of use, reliability, and durability make the Nikon NE-100 and NE-101 series theodolites a smart choice for your general construction, alignment and layout applications. These affordable instruments, featuring the familiar Nikon quality, are ideal for concrete form alignment, anchor bolt positioning, and steel column erection. The theodolites enable a number of positioning techniques: 90-degree layout, checking angles, alignment and plumb, as well as short range grade work and leveling.

The ergonomic keypad and display provide easy access to the powerful and accurate measurement capabilities of the Nikon NE-100 and NE-101 theodolites. Large, easy-to-identify buttons provide one-button operation for key functions. A large text display area makes information easy to read and use on the job. This design provides for a very short learning curve and utilization within a matter of minutes.

The Nikon NE-100 and NE-101 theodolites are built tough to withstand the harsh environments common to many construction job sites. Resistant to water and dust, these rugged units are designed to reduce downtime for repairs. The NE-100 and NE-101 are also compact and easy to transport. A small carrying case holds the theodolite, manual, and tools.

Nikon construction theodolites are tough, reliable and compact.



Nikon NE-100 and NE-101 Theodolites

NE -100

NE -101

Angle Measurement

Reading system	photoelectric incremental encoder	photoelectric incremental encoder
Circle diameter	79 mm (3.1 in)	79 mm (3.1 in)
Unit of reading	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
Accuracy (DIN 18723)	10"/3 mgon	7"/2 mgon

Telescope

Effective diameter of objective	45 mm (1.8 in)	45 mm (1.8 in)
Magnification	30x	30x
Image	erect	erect
Field of view (at 100m/100ft)	1°20' (2.3 m/2.3 ft)	1°20' (2.3 m/2.3 ft)
Minimum focusing distance	0.7 m (2.3 ft)	0.7 m (2.3 ft)
Stadia multiplier constant	100	100
Stadia additive constant	0	0
Reticle illuminator	Yes	Yes

Automatic Vertical Compensator

Type	-	-
Working range	-	-

Display / Keypad

Type	dot-matrix LCD (20 characters x 2 lines)	dot-matrix LCD (20 characters x 2 lines)
Backlight	1-level illumination	1-level illumination
Keypad	5 buttons	5 buttons

Rear

Type	-	-
Backlight	-	-
Keypad	-	-

Optical Plummet

Magnification	2.2x	2.2x
Field of view	5°	5°
Focus range	1.3 m (4.3 ft) fixed	1.3 m (4.3 ft) fixed

Level Sensitivity

Plate level	60"/2 mm	40"/2 mm
Circular level	10"/2 mm	10"/2 mm

Leveling Base

Type	detachable	detachable
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Ambient Temperature Range

-20 to 50 C (-4 TO 122 °F)	-20 to 50 C (-4 TO 122 °F)
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Environmental Rating

IP54	IP54
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Dimensions

Instrument	153.5 x 172 x 334 mm (6.0 x 6.8 x 13.1 in)	153.5 x 172 x 334 mm (6.0 x 6.8 x 13.1 in)
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Weight

Instrument	4.5 kg (9.8 lb)	4.5 kg (9.8 lb)
Carrying case	2.5 kg (5.4 lb)	2.5 kg (5.4 lb)

Power Supply

Battery type	1.5 V AA x 6	1.5 V AA x 6
Continuous operating time (at 68 °F/20 °C)	48 hours	48 hours



TOUGH • RELIABLE • COMPACT

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