

# **NEW** NIKON DIGITAL THEODOLITE

NE-101 Series



## **Easy-to-use, accurate instruments for construction and survey environments**

Designed for general construction and survey applications, Nikon NE-100 Series electronic digital theodolites from TDS give you accurate measurements in an affordable, easy-to-use platform. Nikon NE-100 Series theodolites can run 48 hours under normal operating conditions on a set of six AA alkaline batteries. Each of the four models has an ergonomic keypad with one-touch keys for all functions and a large, backlit LCD display help you work productively in the field.

# NEW DIGITAL THEODOLITE NIKON NE-101 Series Specifications

## NE-101

<b>TELESCOPE</b>	
Effective diameter of objective:	1.77 in (45 mm)
Magnification:	30x
Image:	erect
Field of view:	1°20' (2.3ft @ 100 ft / 2.3m @ 100 m)
Minimum focusing distance:	2.3 ft (0.7 m)
Stadia multiplier constant:	100
Stadia additive constant:	0
Reticle illuminator:	provided
<b>ANGLE MEASUREMENT</b>	
Reading system:	photoelectric incremental encoder
Circle diameter:	3.1 in (79 mm)
Unit of reading:	degree / gon / mil
Minimum digital reading <sup>1</sup> :	5/10", 1/2 mgon, 0.02/0.5 mil
Accuracy (DIN 18723)	7" / 2 mgon
<b>DISPLAY/KEYPAD</b>	
<b>Front</b>	
Type:	dot-matrix LCD (20 characters x 2 lines)
Backlight:	1-level illumination
Keypad:	5 buttons
<b>Rear</b>	
<b>OPTICAL PLUMMET</b>	
Magnification:	2.2x
Field of view:	5°
Focus range:	4.3 ft (1.3 m) fixed
<b>LEVEL SENSITIVITY</b>	
Plate level:	40" / 2 mm
Circular level:	10' / 2 mm
<b>LEVELING BASE</b>	
Type:	detachable
<b>AMBIENT TEMPERATURE RANGE</b>	
	-4 TO 122 °F (-20 to 50 C)
<b>ENVIRONMENTAL RATING</b>	
	IP54
<b>DIMENSIONS</b>	
Instrument:	6.0 x 6.8 x 13.1 in (153.5 x 172 x 334 mm)
<b>WEIGHT</b>	
Instrument:	9.8 lbs (4.5 kg)
Carrying case:	5.4 lbs (2.5 kg)
<b>POWER SUPPLY</b>	
Battery type:	1.5V alkaline AA x 6
Continuous operating time (at 68 °F / 20C)	48 hrs