NIKON ENGINEERING THEODOLITES AND AUTO-LEVELS



RUGGED RELIABILITY IN ENGINEERING CONSTRUCTION APPLICATIONS

PRECISE

RELIABLE

RUGGED



PRECISE PERFORMANCE IN ANY ENVIRONMENT

A COMBINED FORCE DESIGNED FOR YOUR JOBSITE CHALLENGES

A

Compensator (NE-103) and

Minimum 5-second Reading

Allows more precise angle measurements.

The construction engineering industry demands stable products that hold their calibration and provide reliable and accurate long-term performance. Using Nikon engineering theodolites and auto-levels, engineering contractors and surveyors are assured a high level of control and durability through many years of hard use.

NIKON ENGINEERING THEODOLITES

Aligning Strength and Accuracy

The Nikon NE-102 and NE-103 engineering theodolites are an ideal choice for a wide range of construction engineering alignment applications, including alignment control, tilt-up walls, curtain walling and steel column erection. And, with an IPX6 waterproof rating, these ruggedly designed instruments maintain their performance year after year, even in the harshest of jobsite conditions.

SPECIFICATIONS	NE-102	NE-103
TELESCOPE Magnification Aperture Shortest focusing distance ANGLE MEASUREMENT	30× 45 mm 0.7 m	
Minimum digital reading Accuracy COMPENSATOR (NE-203 only)	5"/10" (selectable) 5" (DIN 18723)	
Type Working range	-	liquid-electric detection ± 3' (warning if out of range)
KEYBOARD/DISPLAY Display type Display Illumination Keyboard	dot-matrix LCD with 20 characters × 2 lines backlight both sides	
OPTICAL PLUMMET Magnification Focus Range LEVEL SENSITIVITY	3× 0.5 m to ∞	
Plate level LEVELING BASE	30"/2 mm	
Type POWER	detachable	
Continuous operating time (alkaline batteries) OPERATING TEMPERATURE RANGE	48 hours 47 hours	
OF ENTITION FLAT ENAFORE NAMED	-20 °C to	o +50 °C

PRODUCT	PART NUMBER
NE-102	HRA73010
NE-103	HRA73000

2 IPX6 Waterproofing

Performance maintained in wet or humid environments.

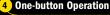
3 Large Display

Easy to read and use on the job.

5 Alkaline Batteries

4 One-button Operation

Fast and easy direct access to key functions such as angle zeroing.



Long battery life of 47 hours for all day operation.





PRODUCT PART NUMBER AS-2 (no circle graduations) HGA24111 AS-2C (360 Degree circle) HGA24211 AS-2C (400 Gons circle) HGA24311 AE-7 (no circle graduations) HGA23111 AE-7C (360 Degree circle) HGA23211 AE-7C (400 Gons circle) HGA23311

NIKON ENGINEERING AUTO-LEVELS

Automatic Precision for Superior Control

The Nikon AS-2 and AE-7 engineering auto-levels provide a high degree of control for leveling and monitoring applications. They are ideal for jobsite elevation control as well as bringing in elevations from a remote location to the jobsite. They can also be used to monitor built structures to measure small elevation changes over time.

SPECIFICATIONS	AE-7	AS-2		
TELESCOPE				
Magnification	30×	34×		
Aperture	40 mm	45 mm		
Shortest focusing distance	0.3 m	1.0 m		
ACCURACY (standard deviation in 1 km double run leveling)				
Without micrometer	±1.0 mm	±0.8 mm		
With micrometer	±0.45 mm	±0.40 mm		
COMPENSATOR (NE-203 only)				
Туре	wire hung, air dampened	wire hung, air dampened		
Working range	±16'	±12'		
LEVEL SENSITIVITY				
Circular level	10'/2 mm			
HORIZONTAL CIRCLE				
Diameter	118 mm	80 mm		
Direct scale reading	1°/1 gon	10'/0.1 gon		
Best reading	0.1°(6')/0.1 gon	1'/0.01 gon		



Reliable and clear optics in wet or humid conditions.

2 Built-In Sights

Quick alignment to the grade rod.

3 Air-dampened Compensator

Minimizes errors due to electromagnetic fields.

Optional Angle Circle— AS-2C and AE-7C

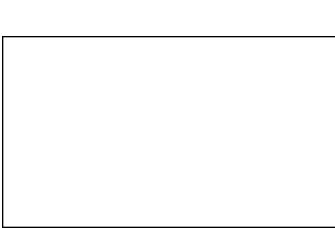
Turn angles and check basic alignments with no additional equipment.

5 Options:

Optical Micrometer, Right-angle Eyepiece, Lens Magnification.

The construction industry demands high productivity, precision and reliability in a tough environment. Nikon is a brand known for delivering superior optical quality, accuracy and reliability, backed by a global service and support network.

The Nikon portfolio of construction auto-levels, theodolites and total stations for positioning, leveling and aligning deliver high value, high accuracy and a high degree of reliability to meet the daily challenges of the construction industry—allowing you to get on with the job.



YOUR LOCAL NIKON OFFICE OR REPRESENTATIVE

TRIMBLE IS DISTRIBUTING NIKON AUTO-LEVELS, THEODOLITES AND TOTAL STATIONS FOR CONSTRUCTION APPLICATIONS AS PART OF A JOINT VENTURE AGREEMENT WITH NIKON CORPORATION.

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