Nikon NPL-322 Series Total Stations



Datasheet



Nikon Quality You Can Trust

Key Features

- 2" and 5" angle accuracies
- Prism and reflectorless measurements
- Fast, accurate EDM
- Convenient and lont-lasting
- Long life Li-ion Battery
- Easy-to-use keypad
- Rugged and lightweight

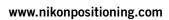
NPL 322 Series

The Nikon NPL-322 Total Station, an economic, versatile, and easy-to-use platform that ensures you get the job done right.

The NPL-322 is available in a 2" dual face model and a 5" single face model to meet your specific accuracy needs. Both NPL-322 total station models feature a reflectorless EDM with up to 200 meter (656 feet) range. Using the same rechargeable long life Li-ion battery as the Nivo series, combined with low power consumption design, the NPL-322 provides over 11 hours of operating time per battery. For convenience, the Nikon NPL-322 total stations include two batteries and a dual charger, to support even the longest of working days.

Nikon's legendary optics effectively allow in more light to give you brighter, clearer images. You'll see the difference when you look through a Nikon Total Station even in the low-visibility conditions typical in the field. You'll see much more detail and much less distortion, especially over longer distances. Better optics help you aim more precisely, and they're much easier on your eyes—something you'll really appreciate on long workdays.

The Nikon NPL-322 is built tough for all occasions.



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SIMPLE • DEPENDABLE • ACCURATE

DISTANCE ME	EASUREMENT		
Range with Nike	on specified prisms		
5	ons (No haze, visibility	over 40 km (25 mi	iles))
	tor sheet (5 × 5 cm)		
	prism 6.25 cm (2.5 in)		
Range reflector			
age .eeeco	Good	Normal	Difficult
KGC (18%)1	150m (492 ft)		
	200m (656 ft)		
, ,	123-4 (Precise mode)	100 (550 1.)	.55 (152 14)
,			+(2+2 nnm x D) mm
	Reflector sheet ³		
Measuring inter			-(5:5 pp : 2)
Prism mode	• • • • • • • • • • • • • • • • • • • •		
Precise mod	le		1.8 sec
	de		
Reflectorless r			
Precise mod	le		1.8 sec
	de		
Least count			
	le		1 mm (0.002 ft)
	de		
Normal mo	ac		
ANGLE MEAS	UREMENT		
ISO 17123-3 acci	uracy (horizontal and	vertical)	2"/0.6 maon
	, ,	,	5"/1.5 mgon
Reading system	Photoeled	ctric detection by i	ncremental encoder

TELESCOPE

Tube length	125 mm (4.9 in)
Image	Erect
Magnification	. 30× (18x/36x with optional eyepieces)
Effective diameter of objective	45 mm (1.77 in)
EDM	50 mm (1.97 in)
Field of view	
Resolving power	
Minimum focusing distance	1.5 m (4.9 ft)
Laser Pointer	Coaxial Red Light

Horizontal angle2":Diametrical

Minimum increment (Degree, Gon, MIL6400)......Degree: 1/5/10"

- 1 Kodak Gray Card, Catalog number E1527795 2 \pm (2+3 ppm × D) mm –20 °C to –10 °C, +40 °C to +50 °C (-4 °F to +14 °F, +104 °F to +122 °F) 1.5m to 5m ± (5 + 3 ppm × D) mm
- 3 1.5m to 5m \pm (10 + 3 ppm \times D) mm
- 4 Measuring time may vary depending on measuring distance and conditions. For the initial measurement, it may take a few seconds.
- 5 Battery life specification at 25 °C (77 °F). Operation time may be shorter if battery is not new. Operation time may be shorter in low temperatures.

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Туре	
Method	Liquid-electric detection
Compensation range	±3'
Setting accuracy	

COMMUNICATIONS

POWER

Clip-on Li-on battery	
Output voltage	
Operating times	

approx. 4.5 hours (continuous distance/angle measurement) approx. 11 hours (distance/angle measurement every 30 seconds) approx. 22 hours (continuous angle measurement)

Charging time	
Full charge	ours
External power supply	N/A

GENERAL SPECIFICATIONS

LCVCI VIGIS			
Sensitivity of Plate leve	el vial		"/2 mm
Sensitivity of Circular le	evel vial	10	'/2 mm
Optical plummet			
Image			Erect
Magnification			3×
Field of view			5°
Focusing range			ft) to ∞
Display		t, graphic LCD (128 × 64 lit, graphic LCD (128x64	

Display	2 .both sides, backing graphic Leb (120 x or pixel)
	5":Single side, backlit, graphic LCD (128x64 pixel)
Point memory	10,000 records
Dimensions (W x D x H)	168 mm x 173 mm x 355 mm
	(6.6 in x 6.8 in x 13.1 in)

Weight (approx.)	
Main unit (without battery)	4.9 kg (10.8 lb)
BC-65 battery	0.1 kg (0.2 lb)
Carrying case	2.5 kg (5.5 lb)
Dual charger and AC adaptor	0.6 kg (1.3 lb)

ENVIRONMENTAL

Ambient temperature range20 °C to +50 °C (-4 °F to +122 °F)
Atmospheric correction
Temperature range40 °C to +60 °C (-40 °F to +140 °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

CERTIFICATION

Prism mode: Class 1

Class B Part 15 FCC certification, CE Mark approval. Laser safety IEC60825-1:2007 Reflectorless mode: Class 1 Laser Pointer: Class 2

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CONTACT DETAILS

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