

Nikon NPR-302 Series Total Stations

Nikon understands what it takes to get the job done right, the first time. The Nikon NPR-302 Series have simplicity and productivity designed into each model. This series offers the superior optics, intelligent design, and quality components that your surveying jobs demand. Add the powerful onboard software, and you have a total station solution that performs all day, every day.

Accuracy and Precision

Nikon NPR-302 Series Total Stations feature 3" and 5" angle accuracy models to handle the demands of your surveying applications. The NPR-302 Series offers high precision distance measurement accuracy of up to ± (2 + 2 ppm x D) mm. Coupled with the reliable and intelligent design, you can be confident that you will achieve the best accuracy and precision with every measurement.

Reflectorless Technology

Gain complete confidence in your measurements with Nikon NPR-302
Series reflectorless EDM technology.
Nikon's reflectorless system uses a patented technology, providing long distance reflectorless measurement range of up to 300 meters (984 ft). As a result, you reduce the need for multiple set-ups by utilizing the flexible NPR-302 series measurement techniques.

Eliminating the need to focus on the target, the Nikon NPR-302 Series' reflectorless technology allows for faster, more efficient data collection. The co-axial laser pointer continues to save you time by assisting with target identification, and reducing aiming time.

Easy to Use

The Nikon NPR-302 Series feature an ergonomic keyboard, containing user-definable keys to give you fast, one-touch access to the functions you use the most. The keyboard is fully alphanumeric with large keys making it easy to access the powerful and intuitive onboard software. Perform surveying tasks quickly and efficiently, and gain even greater productivity as you learn to maximize the NPR-302 Series capabilities.

Rugged and Reliable

Nikon NPR-302 Total Stations are tough enough to stand up to all kinds of weather conditions and meet IP56 standards, offering water and dust proof protection. The onboard battery gives up to 16 hours of continuous distance and angle measurements, or 30 hours of intermittent service. The robust construction and long battery life enable the instruments to work as long and as hard as you do.

KEY FEATURES

3" and 5" Angle Accuracy

300 Meter Range

Laser Pointer

1 or 2 Display Options



DISTANCE MEASUREMENT Reflectorless mode (white target)¹ 1.5 m to 300 m (4.9 ft to 984 ft) Range with Nikon specified prisms Good conditions (No haze, visibility over 40 km (25 miles)) With reflector sheet (5 \times 5 cm) 1.5 m to 270 m (4.9 ft to 885 ft) With single prism 6.25 cm (2.5 in)......3,000 m (9,840 ft) Normal conditions (Ordinary haze, visibility approx. 20 km (12.4 miles)) With reflector sheet (5 \times 5 cm) 1.5 m to 270 m (4.9 ft to 885 ft) With single prism 6.25 cm (2.5 in)......3,000 m (9,840 ft) Accuracy (Precise mode) Prism (NPR-352)(NPR-362)⁴. ±(2+2 ppm × D) mm Prism (NPR-332)⁵..... ±(3+2 ppm × D) mm Reflectorless /Reflector sheet⁵.....±(3+2 ppm × D) mm Measuring interval² Prism mode Reflectorless mode Normal mode1.0 sec. Least count ANGLE MEASUREMENT DIN 18723 accuracy (horizontal and vertical) 3"/1 mgon (NPR-362) 5"/1.5 mgon (NPR-352)(NPR-332) Reading systemPhotoelectric detection by incremental encoder Horizontal angle Diametrical (NPR-362)(NPR-352) Single (NPR-332) Minimum increment (Degree, Gon, MIL6400)............Degree: 1/5/10" Gon: 0.2/1/2 mgon MIL6400: 0.005/0.02/0.05 mil

TELESCOPE

ILLESCOI L	
Tube length	158 mm (6.22 in)
Image	Erect
Magnification33	 (21x/41x with optional eyepieces)
Effective diameter of objective	45 mm (1.77 in)
EDM	50 mm (1.97 in)
Field of view	1°20'
Resolving power	
Minimum focusing distance	1.5 m (4.9 ft)
Laser Pointer	Coaxial Red Light

- 1 White objects with high reflectivity (KGC 90%). Measuring distance may vary depending on targets and measuring conditions.

 2 Measuring time may vary depending on measuring distance and conditions. For the initial
- measurement, it may take a few more seconds.

 3 Battery life specification at 25 °C (77 °F). Operation time may be shorter if battery is
- 4 ±(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) 5 ±(3+3 ppm × D) mm -20 °C to -10 °C, +40 °C to +50 °C (-4 °F to +14 °F, +104 °F to +122 °F)

TILT SENSOR

Type	2)(NPR-352) 5 (NPR-332)
Method Liquid-electri	
Compensation range	
Setting accuracy	
COMMUNICATIONS	
Communication ports	ıl (RS-232C)
POWER	
Clip-on BC-65 NiMH battery	
Output voltage	. 7.2 V DC
Operating time ³	
approx. 8 hours (continuous distance/angle mea	
approx. 16 hours (distance/angle measurement every 3	
approx. 30 hours (continuous angle mea	asurement)
Charging time	2.1
Full charge	3 hours
GENERAL SPECIFICATIONS	
Level vials	
Sensitivity of Plate level vial	
Sensitivity of Circular level vial	. 10'/2 mm
Optical plummet	
Image	
Magnification	
Field of view	
Focusing range	
Display Both sides, graphic LCD (128 × 64 pixel) (NPR-362 Single side, graphic LCD (128x64 pixel)	
Point memory	
Dimensions (W x D x H)	
(6.6 in x 6.8 in	
Weight (approx.)	1 % 13.7 111)
Main unit (without battery) 5.0 kg (11.0 lb) (NPR-362)) (NPR-352)
4.9 kg (10.8 lb)	
BC-65 battery	ka (0.9 lb)
Carrying case4.4	
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

CERTIFICATION

Class B Part 15 FCC certification, CE Mark approval.

Laser safety IEC 60825-1 am2:2001 Reflectorless mode: Class 3R Laser Pointer: Class 3R Prism mode: Class 1







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