

**Telescope**

Objective Aperture (EDM): 45mm

Magnification: 30x, 1°20' Field of View

Resolving Power: 4.0"

Minimum Sight Distance: 1.2 m (3.94 ft)

**Angle Measurement**

Measuring Method: Absolute Encoder

Minimum Display: 1"/5"/10", selectable

Detection Method: Level Radial, Vertical Radial

Angle Measurement Accuracy: 2"

**Range Finding**

Reflectorless/Laser Pointer: Class 3R/IIIa

EDM: Coaxial

Automatic Correction of Input Parameters: Meteorological,  
Atmospheric Refraction, Earth Curvature

**Instrument**

Display: LCD, 6 lines x 12 characters

Internal Memory: 20,000 points

Data Port: I/O, RS-232C, USB, Bluetooth, Micro SD,  
SD Card, USB Stick

Operating Time: 9 hours

Battery: Rechargeable Lithium Ion Battery

Weather Proof: IP55 (IEC60529)

Operating Temperature: -20°C to +50°C

**Level Vial Sensitivity**

Plate Level: 30" / 2mm

Circular Level: 8' / 2mm

**Compensation**

Method: Electronic automatic

Range: +/- 3'

Resolving Power: 3"

**Laser Plummet**

Accuracy: +/- 0.8mm / 1.5m

Laser Class: 2/I EC60825-1



The NTS02 series are 2" reflector less total stations capable of measuring distances up to 2000 m and saving 20,000 points on board or working with a data collector with SurveyPro or SurvCe software. It is typically used by surveyors and civil engineers for:

1. Topographic surveys
2. Construction project layout
3. Leveling
4. Data collection
5. Cadastral surveying












#### Key Features:

- Adjustable minimum readings of 1", 5", and 10"
- Measures in feet and meters
- Multiple on board measuring tools
- Automatic atmospheric correction on NTS02S
- Has a 3 year warranty period from manufacturers defect

Range Finding Mode	Standard Accuracy Deviation	Measuring Time
Precision Measuring Prism	$\pm(2\text{mm}+2\text{ppm} \bullet D)$	<1.2 S
Mini Prism	$\pm(5\text{mm}+2\text{ppm} \bullet D)$	<0.5 S
Reflector	$\pm(5\text{mm}+2\text{ppm} \bullet D)$	<1.2 S
Reflectorless	$\pm(5\text{mm}+2\text{ppm} \bullet D)$	<1.2 S

Range Finding Mode	Measuring Distance
Normal Conditions w/ Prism	2,000 m (6,561.68 ft)
Reflector	700 m (2,296.59 ft)
Reflectorless	300 m (984 ft)

#### Key Operations:

- Turn instrument on- Press the power key 
- Select data port- Press menu  then  to select RS-232 or Bluetooth.
- For NTS02S select drive to save info- Press menu  then  to select Flash, SD, or USB
- Angle measurement- Turn the instrument on then press angle key . Use  to navigate the angle menu
- Distance measurement- Turn the instrument on then press the distance key  Use  to navigate the distance menu
- Coordinate measurement- Turn the instrument on then press the coordinate key  Use  to navigate the coordinate menu