

SPECIFICATIONS

		N4
Distance Measurement		
Max. Range	Reflectorless	600m
	1 Prism	3.5km/ under good condition 4.0km
	3 Prism	5.0km
	Mini Prism	800m
	Sheet	1.2km
Accuracy	Reflectorless	$\pm(3+2\text{ppm}\times D)$ mm
	Reflector	$\pm(2+2\text{ppm}\times D)$ mm
Reading	Maximum: 99999999.999m; Minimum: 1mm	
Measuring Time	Fine Mode: <1.2s; Tracking Mode: <0.3s; Repeat: <0.7s	
Atmospheric Correction	Auto Correction	
Prism Constant	Auto Correction	
Angle Measurement		
Measurement Method	Absolute Encoding	
Diameter of the Absolute Encoding Disk (Horizontal/Vertical)	79mm	
Minimum Reading	0.1"/ 1" Optional	
Accuracy ISO 17123-3	2"	
Detection Method	Horizontal: Dual	Vertical: Dual
Telescope		
Image	Erect	
Length	152mm	
Effective Aperture	45mm, (DTM: 47mm)	
Magnification	30 X	
Field of View	1°30'	
Minimum Focus	3"	
Minimum Focussing Distance	1.3m	
Reticle Illumination	Adjustable	
Automatic Compensator		
System	Dual Axis Liquid-electric Sensor Compensation	
Working Range	$\pm 6'$	
Accuracy	1"	
Sensitivity of Vial		
Plate Vial	30" / 2mm	
Circular Vial	8' / 2mm	
Optical Plummet		
Image	Erect	
Magnification	3 X	
Focusing Range	0.3m~∞	
Field of View	5°	
Laser plummet (optional)	5 levels adjustable	
Camera (Optional)		
Pixel	780000	
Focal length	16mm	
Field of view	12.5x11.7 degree	
Refresh rate	11 frames/s	
Deep of field	2m - ∞	
Digital zoom	1 X, 2 X, 3 X	
White balance	Automatic	
General		
Display	3.5 inches LCD, 320x240 dpi Touch Screen backlight, contrast adjustment	
Keyboard	Alphanumeric Keyboard/ 30 keys with backlight	
EDM Trigger Key	Quick Measure Key located on side cover	
Laser pointer	Easy to find target	
Guide light (optional)	Indicates correct position fast and easy	
Bluetooth	Easier way to transfer data and connect with controller	
Communication		
SD card	Supportable	
Serial I/F Port	USB flash disk/ RS-232C/ USB Mini-B/ SD card/ BLUETOOTH	
On-board Battery		
Power Supply	Rechargeable Lithium Battery	
Voltage	7.4 V dc	
Operating Time	Operating Period with Single Angle and Measurement every 30 seconds 8 hours	
Physical		
Dimension	L206xW200xH353 mm	
Weight(without battery)	6Kg	
IP Standard	IP54	
Data Storage	Internal Memory	98M, ready for 833,000 data blocks
	External Memory	SD Card 8GB, ready for approx. 34,000,000 data blocks 8G USB Flash disk, ready for approx. 68,000,000 data blocks
Working Temperature	-20°C - 50°C	

ACCESSORIES



TK21T

TK25T

Single Prism System



Dia.: 25.4mm

Mini Pole: 30cm~4, 110mm

Offset: 17.5mm/0-30mm

Mini Prism System ADSmini112A/B



ATS-2 (Wooden)

Prism Pole & Prism System ADS107

SOUTH
Target your success

N4

TOTAL STATION



SOUTH
Target your success

SOUTH PRECISION INSTRUMENT PVT. LTD.

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www.southprecision.in

CUSTOMER SERVICE SUPPORT:

AHMEDABAD

CHENNAI

HYDERABAD

INDORE

KOLKATA

MUMBAI

KEY FEATURES



Bluetooth 4.0



Data transfer and storage
Flash disk and SD card,
Mini USB.



T-P sensor, automatic correction



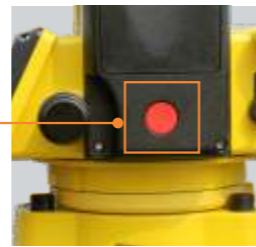
Concentrated ball bearing
Solve axis jam, more stable and
reliable.



Camera Optional for N40/N41



600m reflectorless EDM
Laser pointer, easy to find target



EDM Trigger Key
Special design for quick
measurement

Control panel with high resolution
touch screen
Back-lights keypad with 3.5 inch colorful
LCD touch screen, display for easy viewing
of graphics and operations.
Active screen back-light technology



HD
Display



T/P
Sensor



4-probe
Encoding



Dual
Compensation



Laser
Plummet



Bluetooth

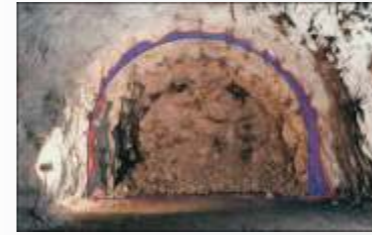


SD
Storage



USB
Interface

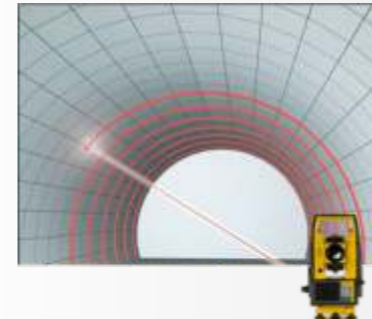
TUNNEL MEASUREMENT



Overbreak & Underbreak



Restoration Construction



Reflectorless Cross-section Measurement



Program optional for N4 Series

Powerful

·Integrated the Random detection of overbreak and underbreak
Excavation contour line lofting, Cross-section measurement, Points
& lines lay-out and Data processing as a whole

Simplify

·One-key operation to finish the data seamless transform
among modules

Precise

·Millimeter accuracy ensured by considering various plane
curve and vertical curve, contour shape and tunnel interface in
same time



CONTROLLER



Powerful application platform

.Increase efficiency with data controller

Combine with different kinds of fieldwork software

.EGStar, Field Genius, etc.

