Tersus GNSS TAS-Z1 pro Total Station

Overview

TAS-Z1 pro adopts a new ranging system, with a longer measurement range and faster speed. Laser pointing technology on the same vertical axis provides more accurate alignment. Full number+letter keyboard for faster input. The latest circuit design reduces battery power consumption. A brand new ranging circuit system adopts an ultra-low noise broadband amplifier with independent intellectual property rights, greatly improving measurement accuracy. Dual-face keyboards with buttons illumination to minimize mistakes provide optimum viewing and convenience under any environmental conditions.



Key Features

- ✓ The noise phase analysis method is used to greatly reduce the interference of various noises on the phase measurement results under bad weather and small-signal conditions
- ✓ The new optical path design fully isolates the transmitting and receiving optical signals, ensuring high accuracy
- Built-in bluetooth and PC connected through bluetooth, using communication software for bidirectional wireless data transmission
- ✓ Support EXCEL table data and DAT data import and export;
- ✓ It can display 19-bit code, and the road stakeout point information is clear at a glance
- ✓ Add known point files, all projects can call known point coordinates
- ✓ A brand new road measurement program that can calculate horizontal and vertical curves of any type of road, allowing for discontinuous changes in the radius of horizontal curves, including non-complete transition curves with any large deviation angle, straight line elements with straight turning points, and any broken chain piles

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TERSUS 🔖 📂 DATASHEET

Technical Specifications

Performance

Distance Mea	asurement:	
- Range:	Reflective	Single prism: 5000m sheet (60mm × 60mm): 1000m Non-prism ⁽¹⁾ : 1000m
- Accuracy:	Reflective shee	Single prism: 2mm+2ppm t (60mm × 60mm): 2mm+2ppm Non-prism: 3mm+2ppm
- Measuring T		Prism fine: 0.3s Prism tracking: 0.1s Non-prism: 0.3~3s
Angle Measu	rement:	
- Method: Ab:	solute encoding	angle measurement technology
- Disc Diamet	er:	79mm
- Minimum Re	eading:	0.1"/1"/5"/10" optional
- Accuracy:		2"
- Detection M		ertical disc: diametrically aligned
Telescope:		
- Imaging:		Erect
- Mirror Tube	0	154mm
	erture Of Object	
- Magnificatio	on:	30X
- Field Of Viev	N:	1°30′
- Resolution:		3"
- Minimum Fo	ocus Distance:	1.2m
Comprehensi	ive Parameters:	
- Compensato Dual-	or: axis liquid photo	electric electronic compensator compensation range: ±4' resolution: 1"
- Meteorolog Automa	ical Correction: tic correction of	input temperature and pressure
- Prism consta	ant Correction: Automati	c correction of input parameters

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Level:	
- Pipe Level:	30"/2mm
- Circular Level:	8'/2mm
Laser Plummet:	
- Brightness Level:	5-stage regulation
- Accuracy:	±1.5mm
EDM System:	Laser Class 3R Wave Length: 665nm - 695nm

System & Data

Operating System:	DOS
Storage:	Built-in 12MB (ready for 100,000 points)
Data Input:	CSV
Data Output:	DAT, CSV, DXF File
Data Transmission:	USB, Bluetooth
Dist.Unit:	Meter, Feet, Feet-inch
Battery	

Rechargeable Lithium Battery: DC 7.4V 3100mAh x2 Continuous Working Hours:

Physical

Display:	LCD, 6 lines digital screen
Keyboard:	Alphanumeric, 24 keys with backlight
Control panel:	Double
Reading:	Max: 99999999999999 Min: 0.1mm
Dimension:	200x190x330mm
Weight:	5.5kg
Operating Temperatur	re: -20°C ~ +60°C
Storage Temperature:	-30°C ∼ +70°C
Dust- & Waterproof:	IP66

Note:

(1) Kodak White, 90% reflectivity

8h x2