

PTS-121R Total Station



Main features

- 1) Two-axis compensator
- 2) Measurement range without reflectors of 600m
- 3) Big Data Storage and Bluetooth Connection

Detailed benefits features

Two-axis correction

of P TS-12 1 R consists of an advanced two-axis compensator for automatic error removal and automatic accuracy compensation.

Absolute encoding

Absolute encoding disks ensure high accuracy, efficiency and stable performance. There is no need to initialize and you can measure the angle immediately. P TS-12 1 R turns on. Previous data and settings will be saved automatically. parable P TS-12 1 R suddenly turned off.

High performance MCU

With the SMT32 MCU based on the ARM Cortex™-M processor, P TS-12 1 R Very high processing speed and low power consumption.

bluetooth

Bluetooth wireless technology, P TS-12 1 R can access any data collector for real-time communication. Third-party field software such as Carlson SurvCE is fully compatible with the PTS-121R.

Data Storage

A variety of data transfer options, such as SD cards and Micro-USB ports, work perfectly with free dual-port USB disks.

Backlight

The screen and keyboard backlight are adjustable, making it easy to work in the dark.

Diagonal eyepieces

It supports diagonal eyepieces for observation with sudden gazes.

Calibration software

Running real-time diagnostics using SUNWAY Calibration software allows you to quickly identify problems and ensure trouble-free operation.

New Data Transfer Software

The new, easy-to-use data transfer software supports a variety of output data formats that can be used with AutoCAD and other branded post-processing software.

Reticle: Illumination

Technical parameters

Angle measurement

Measurement method: Absolute encoding

Minimum readout: 1"/5"/10" (0.3mgon/1.5mgon/3mgon) option

Accuracy 1:2"

Distance measurement (with reflector)

Single Prism: 5000m (9,842 ft)³ under good conditions

Three prisms: 6000m (19,685 ft) under good conditions 3

Reflective sheet: 800m (2,624 feet)

Accuracy: 2 mm 2ppm

Measurement time (fine/quick/tracking): 1.5 seconds/1 second/0.5 seconds

Distance measurement (no reflector)

No reflector 2 Range: 350m, 600m

Single Prism: >7500m (24606ft.)

Accuracy: 3mm2ppm

Measurement time: 1.5 seconds

telescope

Magnification: 30X

Field of view: 1°30 min (2.7m at 100m)

Minimum shooting distance: 1.2m

Reticle: Illumination

Compensator

System: 2-axis (optional)

Operating range: $\pm 3'$

Setting accuracy: 1 inch

communication

bluetooth

Interface: Standard RS232, SD card 4, USB pen drive, Mini USB

Internal data memory: Approx. 20,000 points

Data format: ASCII

Surgery

Operating System: Real-time Operating System

Display: High-resolution backlight black and white display with contrast adjustment function/Graphics: 280 x 160 pixels/Characters: 6 lines x 25 characters

Keyboard: 2-sided alphanumeric backlit crystal keyboard

Laser Plumet

Type: Laser Point, 4 levels of brightness adjustment/centripetal force (optional)

Centering Accuracy: 1mm at equipment height of 1.5m

power supply

Battery Type: Rechargeable Li-ion Battery

Voltage/Capacity: ZBA-400: 7.4V(DC)/3000mAh

Operating time when using ZBA-400: Optimal 16 hours 5 (continuous angle measurements every 30 seconds) / 10 hours (standard)

Measurement time: Approximately 1 hour 12,000 times

environment

Operating temperature: -20°C to 50°C (-4°F to 122°F)

Storage temperature: -40°C to 70°C (-40°F~158°F)

Dust and waterproof (IEC60529 standard)/Moisture resistance: IP54, 95%, no condensation

application

1. Mineral investigation, exploration and excavation.
2. Construction of railways, highways and bridges.
3. Irrigation and water conservation, urban planning and construction.
4. Building battlefield preparation, ports, fortress, airports, and military engineering.
5. Accurate positioning and installation in the shipbuilding and aerospace industries.
6. Three-dimensional coordinates of the structure, measurement position, pipeline orientation, and cross-section measurement.
7. Triangulation, topographical survey, cadastral survey, property survey.

If you are interested in this product, please feel free to contact us.