SPECIFICATIONS

Angle Measurement
Measurement Method.....Absolute Encoding
Minimum Readout..... 1″/5″/10″
(0.3mgon/1.5mgon/3mgon) adjustable
Accuracy[1]..... 2″

Distance Measurement (with Reflector)
Single Prism.....3000m (9,842ft.) under good condition[3]
Three Prisms.....6000m (19,685ft.) under good condition[3]
Reflective Sheet.....800m (2,624 ft.)
Accuracy.....2 mm +2ppm
Measuring Time (Fine/ Tracking)..... 0.8s/0.3s

Distance Measurement (Reflectorless)
Reflectorless[2] Range..... 350m(1,148ft)/600m(optional)
Single Prism..... >7500m (24,606ft.)
Accuracy..... 3mm+2ppm
Measuring Time.....1.5s

Telescope
Magnification.....30X
Field of View..... 1°30′ (2.7m at 100m)
Minimum Focusing Distance.....1.2m
Reticle..... Illuminated

Compensator
System..... Single axis/Dual axis(optional)
Working Range..... ±3′
Setting Accuracy..... 1″

Communication
Bluetooth
Interface..... Standard RS232, USB, mini-B
Internal Data Memory..... Approx. 20,000 Points, default 8G USB pen drive
Data Format..... ASCII

Operation
Operation system..... Real-time Operating System
Display..... High resolution backlight black and white display with contrast adjustment/ Graphics..... 192 x 96 pixels

Keyboard..... 2 sides Alphanumeric backlit crystal keyboard
Trigger key..... On right instrument support

Laser Plummet
Type..... Laser point, 4 brightness levels adjustment / Optical plummet (optional)
Centering Accuracy..... 1 mm at 1.5m instrument height

Power Supply
Battery Type.....Rechargeable Li-ion battery
Voltage/Capacity..... ZBA-400: 7.4V (DC) / 3400mAh
Operating Time With ZBA-400..... Optimal 16 hours[4]
(Continuous angle measurement every 30 seconds)
Measuring Times..... Approx. 12000 times

Physical
Weight (without battery).....Approx. 3.7kg (8.16lb.)
Size..... 300mm x 150mm x150mm(HxWxD)

Environmental
Meteorological parameter modification.....Manually
(T-P senser is optional)
Operating Temperature..... -20℃ ~+50℃ (-4℉ to +122℉)
Storage Temperature..... -25℃ ~+70℃ (-13℉to + 158℉)
Dust&Water Proof (IEC60529 Standard)/Humidity.....IP66, 95%,non-condensing

[1] Standard deviation based on ISO 17123-3.
[2] Calculated by Kodak Gray Card white side (90% reflective), exact distance depends on measuring object, observation and environment conditions.
[3] Good condition: no haze, visibility about 40km, moderate sunlight,
[4] New battery at 25℃, 24 hours continuously angel measurement mode.

Descriptions and specifications are subject to change without notice

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SUNWAY

SUNWAY MINIATURIZED

ATS-120M Total Station

Long Ranging, Fast Measurement

Features

Compact, Lightweight Design

Ensuring the stability of every indicators of equipment; saving operator's physical exertion in field work.

Quick Trigger Button

By pressing it, measurement can finish quickly after targeting the object.

Powerful and Fast EDM Capability

Available to reach the target point fast where the data is inconvenient to collect.

Dust and Water Protection IP66

Continue to work even in extremely inclement environment.

Stable axis Compensation

Vivid graphic electronic bubble display ensures the high accuracy.

Upward Laser Pointing

No dead angle in upward measurement, which is significant for special application.

Intelligent Calibration Software

Accessible for real-time diagnosis to ensure trouble-free operation.

Software Compatibility

Compatible to the third party data processing software, satisfying users' requirements for different data formats.