

# AM02



Precision Performance, Intelligent Price

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The APEKS AM02 Total Station delivers professional-grade performance at an unbeatable price, engineered for daily surveying demands.



It achieves 2" angle accuracy and offers reflectorless measurement up to 1000 m (5000 m with a single prism). two battery can ensure 16 hours of continuous operation, it ensures reliable all-day productivity for demanding surveying applications

**1KM**  
Non-prism  
-  
**5KM**  
Single Prism

Vision & Precision



**2"**

Angle Accuracy

Precise  
Measurement



**2.8"**

Color Screen

More Clear &  
Bright View

## Dual-axis Compensation

This unit offers 0.8" precision with 0.3s tracking, supported by a dual-axis compensator. It provides 1000m prism-free ranging at  $\pm(3\text{mm}+2\text{ppm})$  accuracy and features a bright 2.8" color display with integrated laser plummet for efficient operation.

## Measure & Setout by Android Software

The AM02 seamlessly connects to ApekSurv via Bluetooth, enabling direct CAD basemap import and graphical stakeout without manual coordinate entry. It unifies GNSS and optical surveys under one project with intuitive graphic guidance for points and lines, streamlining your workflow with unmatched ease.

## Temperature and Pressure Sensor

Temperature and pressure changes have a negative impact on the accuracy of distance measurements. The Smart T-P Sensor automatically monitors the changes and adjusts the distance calculations to guarantee precise PPM for accurate measuring on demand

## Flexible Connectivity

AM02 total station supports Bluetooth, RS232, Micro USB, 8GB OTG USB drive, SD card meets various data needs. it can store 20000 points with internal storage. Bluetooth ensures seamless connection with ApekSurv for smooth data transfer.

## Long battery life

The AM02 has two 7.4V 3000mAh batteries, each battery can work 8 hours, enabling a total of 16 hours of non-stop fieldwork with another backup one. This robust power system allows for approximately 12,000 measurements on a full cycle to meet most demanding survey missions.

## Angle Measurement

Angle measurement principle	Absolute Encoding
Minimum Reading	1"/5"/10" (0.3mgon/1.5mgon/3mgon) optional
Angle Accuracy	2"

## Distance Measurement (Reflectorless)

Range	1000m
Accuracy	±(3mm+2ppm)
Measurement time	Approximately 1.5s

## Distance Measurement (prism mode)

Range	5000m
Accuracy	±(2mm+2ppm)
Measurement time	Repeat/Tracking: 0.8s/0.3s

## Telescope

Magnification	30X
Field of View	1°30' (2.7m at 100m)
Minimum Focusing Distance	1.5m
Reticle	illumination

## Compensator

System	Dual-Axis Compensation
Compensation Range	±3"
Setting precision	1"

## Communication

Internal Data Memory	Approx. 20,000 Points
Interface	Standard RS232/SD card <sup>4</sup> Micro USB/USB flash drive
Wireless Communication	Bluetooth
Data format	ASCII

## Operate

Operating System	Real-Time Operating System
Display Screen	2.8" 240*320 pixel color display screen
Keyboard	2 sides Alphanumeric backlit crystal keyboard

## Plummet

Type	Laser point, 4 brightness levels adjustment
Centering Accuracy	1mm at 1.5m instrument height

## Power Supply

Li-ion battery capacity	Rechargeable Li-ion battery 7.4V (DC) / 3000mAh
Working Hours	16 hours continuous angle measurement mode with 2 battery
Measuring Times	Approx. 12000 times

## Environmental Conditions

Operating Temperature	-20°C ~+50°C (-4°F to +122°F)
Storage Temperature	-40°C ~+70°C (-40°F to +158°F)
Temperature & Pressure Input	auto correction
Dust&Water Proof	IP55,95%, non-condensing

## Size & Weight

Size	200 x 200 x 355 mm (7.68 x 7.28 x 14.37 in)
Weight	5.6kg



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