



# SPS986

## GNSS SMART ANTENNA

### RUGGED, RELIABLE POSITIONING

The ultra-rugged Trimble® SPS986 GNSS Smart Antenna offers unmatched reliability for construction site positioning. Ideal for use on small and large job sites, the SPS986 can serve as a GNSS rover system or as a base station for other GNSS operations including machine control.



Ultra-rugged housing built to withstand harsh construction site conditions

Sensor onboard shows verticality on field controller screen

GNSS receiver, antenna, and battery in one unit

Connected site enabled with integrated Wi-Fi®, Bluetooth®, and wideband radio

Quick release connector makes it easy to move the unit between case, range pole, ATV, and truck

### Key Benefits

Trimble's SPS986 GNSS Smart Antenna is faster and scalable, has a longer battery life and incorporates the latest technology to make construction surveying easier, safer and more productive.

#### Rugged, All-In-One Solution

- ▶ Combines unprecedented strength and durability into a compact form that is easy to use and virtually indestructible
- ▶ The most rugged receiver Trimble has ever built, so you won't experience downtime with equipment that doesn't work
- ▶ Save time by wirelessly synchronizing progress data and as-built information to the job supervisor or head office and receive updated design information back without ever leaving the jobsite
- ▶ Receives Real-Time Kinematic (RTK) corrections via the internal wideband radio, Wi-Fi or the internet so you can obtain higher accuracy site measurements such as grade checking; construction crews can spend more time doing the work and less time setting up and maintaining the equipment
- ▶ Utilizes more GNSS constellations, satellites and signals to increase productivity and uptime with greater accuracy in challenging conditions such as under tree canopy and in urban areas
- ▶ Conduct your own high-accuracy site measurement tasks and save on contract personnel costs

#### Trimble xFill Technology

Trimble xFill technology expands site productivity by allowing short excursions into valleys and other locations where GNSS corrections were not previously available.

#### Flexibility

Can be easily moved from carrying case to range pole, tripod, t-bar or vehicle with a single click, so you can get going faster no matter the operation technique.

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## KEY FEATURES

The SPS986 is engineered to stand up to the most dynamic and rugged jobsite measurement applications. The integrated smart antenna design and quick release connector make it easy to transport and set up on a range pole, ATV or supervisor truck.

The SPS986 can move from one site measurement application to another with one quick release, saving set up time and maximizing use time. For example, a grade checker can mount the SPS986 to an all terrain vehicle and conduct site topos, check as-builts, and road center lines in even the roughest site conditions. The SPS986 can withstand the high vibration scenarios often seen on ATV-mounted site work without interruption or fear of damage.

With Trimble SPS Field Controller Software, you can:

- ▶ Determine cut/fill on a range pole, utility vehicle, or truck
- ▶ Record tilt data when taking measurements
- ▶ Stake out site or road features, utilities, daylight lines and side slopes
- ▶ Measure progress and calculate material stockpile volumes
- ▶ Carry out as-built measurements, grade checks and laid material thickness checks

The SPS986 integrates numerous timesaving features in a compact and rugged system. It has never been so quick and easy to get measuring. Initial site work and topo can even be done base station free using satellite delivered GNSS corrections to the rover.

The Trimble GNSS Status App can be used to quickly check the health and status of the receiver using your smartphone. If more detail is needed, Trimble Web UI can be accessed over Wi-Fi. Setting a new standard for rugged reliability, the SPS986 GNSS Smart Antenna keeps your crews working, not wasting time with GNSS maintenance.

With the onboard sensor, users can now see the verticality of the receiver while viewing the field controller software, instead of needing to focus on the rod bubble. SPS Field Controller Software stores the verticality data when recording points. Especially in the dark, work more efficiently and save time getting the job done.

## Reliable Base Station

The SPS986 can also serve as a powerful site base station, using integrated Wi-Fi or optional radio to send and receive corrections for rover or machine control work. It is the easiest base station on the market – just put it on the tripod, switch it on, and you're ready to go. The SPS986 will automatically establish a connection with the machine radio or GNSS rover and begin transmitting corrections.

With Trimble's latest Maxwell™ technology, the SPS986 GNSS Smart Antenna can "see" more GNSS constellations and signals than traditional GPS, so you can expect greater accuracy in more challenging conditions such as under tree canopy and in congested construction sites. That also means more uptime using the system and more productivity for your job crews.



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