SPS985

GNSS SMART ANTENNA

Trimble

RUGGED, RELIABLE POSITIONING

Trimble

The ultra-rugged Trimble® SPS985 GNSS Smart Antenna offers unmatched reliability for construction site positioning. Ideal for use on small and large job sites, the SPS985 can serve as a GNSS rover system or as a Wi-Fi® enabled base station for other GNSS operations including machine control.

Key Features

Easy-to-Use Rover

The SPS985 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 SPS985 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 SPS985 to an all terrain vehicle and conduct site topos, check as-builts, and road center lines in even the roughest site conditions. The SPS985 can withstand the high vibration scenarios often seen on ATV-mounted site work without interruption or fear of damage.

With Trimble SCS900 Site Controller Software, you can:

- Determine cut/fill on a range pole, utility vehicle, or truck
- 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

 ↓ Ultra-rugged housing built to withstand harsh construction site conditions

GNSS receiver, antenna, and battery in one unit

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

Quick release connector makes it easy to move the unit between case, range pole, ATV, and truck The SPS985 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 Web UI™ eliminates the need to travel to the job site for routine monitoring of the established base station. Now you can assess the health and status of the base station and perform remote configurations from the office. Setting a new standard for rugged reliability, the SPS985 GNSS Smart Antenna keeps your crews working, not wasting time with GNSS maintenance.

Reliable Base Station

The SPS985 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 SPS985 will automatically establish a Wi-Fi connection with the machine radio or GNSS rover and begin transmitting corrections.

With integrated Trimble 360™ receiver technology, the SPS985 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 urban areas. That also means more uptime using the system and more productivity for your job crews.



SPS985 GNSS Smart Antenna

+++++++++++++++++++++

GENERAL Keyboard and display LED indicators for satellite tracking radio link reception and power monitoring On/Off key for one-button startup Dimensions (L × W × D) 12 cm (4.7 in) × 13 cm (5.1 in) Weight 1.55 kg (3.42 lb) including radio and battery Complete system (rover, controller, pole) 3.9 kg (8.6 lb) ENVIRONMENT Operating¹40 °C to +65 °C (−40 °F to +149 °F) Storage40 °C to +75 °C (−40 °F to +149 °F) Humidity 100%, condensing Waterproof IP67 for submersion to depth of 1 m (3.3 ft), dustproof Pole drop Designed to survive a 2 m (6.6 ft) pole drop onto concrete MEASUREMENTS² • 440-channel LIC/A, L1/L2/L2C GPS and QZSS. Upgradable to L5 and • GLONASS L1/L2C/A, L1/L2P Full Cycle Carrier • Optional Galileo and BeiDou • Trimble xFill for short gaps in correction service • CenterPoint™ RTX™ Correction Service • OmniSTAR™ • Trimble EVEREST™ multipath signal rejection • 4-channel SBAS (WAAS/EGNOS/MSAS/QZSS) CODE DIFFERENTIAL GPS POSITIONING³ Horizontal accuracy 0.25 m + 1 ppm RMS (0.8 ft +1 ppm RMS) Vertical accuracy 0.50 m + 1 ppm RMS (0.026 ft +1 ppm RMS) REAL-TIME KINEMATIC (RTK UP TO 30 KM) POSITIONING³ Horizontal accuracy 8 mm +1 ppm RMS (0.026 ft +1 ppm RMS) Vertical accuracy 15 mm +1 ppm RMS (0.05 ft +1 ppm RMS)	**FCC Part 15 Subpart B (Class B Device), Part 15.247, Part 90 **Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada **Canadian RSS-310, RSS-210, and RSS-119. Cet appareil est conforme à la norme CNR-310, CNR-210, et CNR-119 du Canada **ACMA: AS/NZS 4295 approval **CE mark compliant **C-tick mark compliant **Polis Compliant **Description Miles Co
TRIMBLE XFILL Horizontal accuracy	Receiver will operate normally to -40 °C. Internal batteries are rated to -20 °C. The Trimble SPS985 GNSS Smart Antenna is capable of supporting existing and planned GNSS satellite signals, including GPS, GLONASS, Galileo, Quasi Zenith Satellite System and BeiDou, and existing and planned augmentations to these GNSS systems. Support for the Galileo system is developed under a license of the European Union and the European Space Agency. Accuracy and reliability may be subject to anomalies such as multipath, obstructions, satellite geometry, and atmospheric conditions. Always follow recommended practices. RTK refers to the last reported precision before the correction source was lost and xFill started. May be affected by atmospheric conditions, signal multipath, and satellite geometry. Initialization reliability is continuously monitored to ensure highest quality. For receivers with the 2.0W upgrade, reduced battery performance should be expected compared to the 0.5W solution. Bluetooth type approvals are country specific. For more information, contact your local Trimble office or representative.
Power consumption. 11 V DC to 28 V DC external power input3.7 W, in RTK mode with internal radio	Specifications subject to change without notice.



TRIMBLE CIVIL ENGINEERING AND CONSTRUCTION

Trimble Navigation Limited 10368 Westmoor Drive Westminster CO 80021 USA 800-361-1249 (Toll Free) +1-937-245-5154 Phone $construction_news@trimble.com$

© 2013-2016. Trimble Navigation Limited. All rights reserved. Trimble, the Triangle & Globe logo and SITECH are trademarks of Trimble Navigation Limited, registered in the United States and other countries. Autobase, CenterPoint, CMR, CMR+, EVEREST, Maxwell, RTX, VRS and 360 are trademarks of Timble Navigation Limited. The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Trimble Navigation Limited is under license. Wi-Fi is a registered trademark of the Wi-Fi Alliance. All other trademarks are the property of their respective owners. PN 022482-2553E (07/16)



OPERATION TIME ON INTERNAL BATTERY