



# PG200

## GNSS Receiver

### KEY FEATURES

High-sensitivity GNSS Receiver with on-board processing of all positioning data

- Sub-meter real-time accuracy
- Integrated antenna

Compact and lightweight

Compatible with multiple platforms:

- Apple® iOS™
- Google® Android™
- Microsoft® Windows® and Windows Mobile (WEHH)

IP65 Environmental Protection and MIL-STD-810G ruggedness

ViewPoint™ RTX support over satellite L-band and cellular

Bluetooth® connectivity

Long battery life



### ACCURACY FOR EVERYONE: PROFESSIONAL-LEVEL GNSS POSITIONING INFORMATION FOR ALMOST ANY DEVICE

The Trimble® PG200 is a rugged, pocket-sized GNSS receiver that provides sub-meter accuracy to users of any Bluetooth® connected mobile device, including smart phones, tablets, or more traditional integrated data collection tools such as a Trimble handheld computer.

#### Multiple Constellation Support Provides Global Reach

The PG200 supports multiple GNSS constellations, including GPS, GLONASS, Galileo, QZSS and BeiDou, and also includes the ability to utilize SBAS, Trimble ViewPoint™ RTX or VRS correction sources to suit the location and business requirements - providing accurate GNSS information almost anywhere on earth.

The Trimble ViewPoint RTX\* service provides near-global sub-meter accuracy, using Internet Protocol (IP) cellular where coverage is available, or over satellite L-band, even in remote locations.

#### Small and Easy to Use

The compact size and light weight of the PG200 makes it easy for the mobile worker to carry without worrying about bulky equipment. The palm-sized device can easily be carried in a pocket or hung on a belt, using the optional belt pouch.

Download the intuitive GNSS Status Trimble software app to allow configuration of real time sub meter corrections and provides status information, conforming to device platform standards (iOS, Microsoft, or Android). GNSS Status will connect with any PG200 once it has been paired using Bluetooth.

IP65 rated environmental protection and military-spec 810G certified ruggedness make the PG200 ideal for professional outdoor use.

The Trimble PG200 GNSS receiver is easy to use. Simply:

- Install the GNSS Status application on the consumer or Trimble device
- Turn on the PG200 receiver and pair using Bluetooth
- Configure the receiver with a correction source (e.g. SBAS, RTX...)
- Instantly start collecting data using your mobile device



*\*Available only through Trimble applications, Trimble ViewPoint RTX service provides nearglobal sub-meter accuracy using IP cellular where coverage is available, or over satellite L-band, to support your needs in remote locations around the world.*



# PG200 GNSS Receiver

## GNSS

Sensor type: ..... L1/G1 GNSS receiver and antenna  
Systems: ..... GPS, GLONASS, Galileo, Beidou, QZSS  
Channels: ..... 44-channel, parallel tracking  
Correction sources: ..... SBAS, ViewPoint RTX, QZSS, VRS  
SBAS: 4-channel, parallel tracking WAAS, EGNOS, MSAS  
GAGAN, SBAS ranging  
Receiver Protocols: ..... NMEA 0183 v4.00, Binary  
Update rate: ..... 1 Hz  
Time to first fix: ..... 45s typically  
Reacquisition: ..... < 2s  
Real time correction protocols: ..... CMR, CMR+, CMRx  
RTCM 2.1, 2.2, 2.3, 3.0, 3.1

SBAS accuracy<sup>1</sup>: ..... < 100 cm  
ViewPoint RTX<sup>1</sup>: ..... 50 cm HRMS  
Code DGNSS accuracy (real-time)<sup>1</sup>: ..... 75 cm + 1 ppm  
HRMS

Maximum speed: ... 1,850 kph / 1,150 mph / 999 knots  
Maximum altitude: ..... 9,000 m (29,520 ft)

## INTERFACES

Port: ..... Bluetooth 2.1 + EDR,  
USB 2.0 (charge/firmware update)  
Bluetooth transmission: ..... Class 2 (10m), iAP2  
and 2.1 + EDR  
Bluetooth frequency: ..... 2.400 - 2.485 GHz  
Raw measurement data: ..... Trimble GSOF, Binary  
Communication status LED: ..... Bluetooth status, GNSS,  
Corrected GNSS  
Power status LED: ..... Charging, charging (full), 3 stage  
battery status (>50%, 15 - 50%, <15%)

## BATTERY AND POWER

Battery Type: ..... Integrated Lithium-Ion  
Battery Capacity: ..... 3.7v 15Wh  
Battery Life: ..... 10+ hours  
Charging Time: ..... 3.5 hours (typical, with  
supplied charger)  
External Antenna Voltage Output: ..... 3 VDC  
External Antenna Input Impedance: ..... 50 Ohms

## ENVIRONMENTAL

Water/Dust Ingress: ..... IP65  
Operation temperature: ..... -20 °C to +60 °C  
(-4 °F to +140 °F)  
Storage temperature: ..... -30 °C to +70 °C  
(-22 °F to +158 °F)  
Relative humidity: ..... 95% non-condensing  
Shock (non-operating): ..... 1.2 m (4 ft) to  
plywood over concrete  
Vibration: ..... MIL-STD-810G Method 514.5  
Procedure I Category 24  
Maximum storage altitude: ..... 12,192 m (40,000 ft)  
Maximum operational altitude: ..... 9,000 m (29,520 ft)

## PHYSICAL

Enclosure Dimensions: ..... 11.2 x 6.8 x 2.6 cm  
(4.4 x 2.7 x 1 in)  
Weight: ..... 187g (0.4 lb)  
Power Connector: ..... Micro-B USB Female  
External Antenna Connector: ..... SMB Female

## INTERNAL ANTENNA

Frequency Range: ..... L1, G1, L-Band  
(1535 MHz - 1610 MHz)

## SUPPORTED PLATFORMS

iOS (7 or greater), Android (4.1 or greater),  
Windows (7 or greater), WEHH (6.5x)

## COMPLIANCE

FCC Part 15 (Class B device), CE Mark, RoHS, Bluetooth

## ACCESSORIES

Belt pouch/clip  
Pole pouch  
1.5m (5 ft) External Antenna



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Android is a registered trademark of Google, Inc. Windows is a registered trademark of Microsoft, Inc.

<sup>1</sup>Accuracy and reliability may be subject to anomalies due to multipath, obstructions, satellite geometry, and atmospheric conditions. Always follow recommended GNSS data collection practices. Specified ViewPoint RTX accuracy is typically achieved within 10 minutes.



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