



GPS RECEIVER **LCGPS**

RECEIVER AND INTEGRATED BAND L1 BEIDOU/GLONASS/GPS ANTENNA, IDEAL FOR LOW-COST AGRICULTURAL APPLICATIONS

Recommended for spraying, broadcast fertilizing applications, harvesting and soil preparation with manual guidance.

GENERAL INFORMATION

LCGPS Verion is a cutting-edge integrated solution of GPS and L1 band GLONASS receiver, and a multi-frequency antenna, mounted in a sturdy case, easy-to-install through a highly-powerful magnet.

In addition to the GPS and GLONASS support, which are currently the most commonly used systems, the receiver supports Galileo and BeiDou processing signals. It also boasts additional channels for SBAS (WAAS, EGNOS and MSAS) signal processing.

The internal processor can calculate the position up to 10 times per second and deliver it to the RS232 communication port depending on the configuration of each NMEA message.

Different configurations depending on movement dynamics and type of application provide a statistical position solution to keep optimal accuracy between passes at a very low cost compared to other GPS on the market.

FEATURES

- Positioning down to 10 Hz
- L1 band GPS/GLONASS/BEIDOU
- Smooth and consistent positions for step-by-step applications.
- Sturdy integrated design.
- 12 V or 24 V compatible.
- Pass-to-pass accuracy 30 cm.

(See technical features)

PRODUCT CODE

VELCGPS: 10 Hz LCGPS built-in GPS antenna and receiver.



TECHNICAL FEATURES

Channel configuration

72 channels ⁽¹⁾

Monitoring of signals

GPS/QZSS	L1 C/A,
GLONASS	L1OF,
BeiDou	B1I,
Galileo	E1 B/C
SBAS L1 C/A: WASS, EGNOS, MSAS, GAGAN	

Horizontal position accuracy (RMS) ⁽²⁾

Autonomous L1	4 m
Pass-to-pass	0.3 m ⁽³⁾

Data rate

Measures up to	10 Hz
Position up to	10 Hz
Frequency of data	10 Hz

Output Information

NMEA0183 and ASCII Novatel and GLIDE binary smoothing algorithm

PRODUCT PRESENTATION



COMMUNICATION PORTS

→ RS-232 serial 1 port

PHYSICAL AND ELECTRICAL SPECIFICATIONS



Dimensions

155 mm diameter × 55 mm height

Weight

<800 g

Connector

4-pin Tyco CPC

Mounting

Magnetic mounting

Power supply

Input voltage range + 9 to + 25 VDC

2.5 energy consumption W (typical) ⁽⁴⁾

1) the channels are configured by the receiver.

2) typical values in open-air conditions. Precision performance is subject to the GNSS systems characteristics, signal degradation, ionosphere and troposphere condition, geometry of satellite distribution, multi-paths signals and the presence of intentional or unintentional sources of interference.

3) Pass-to-pass means between adjacent passes, taking into account that the maximum time between them should not exceed 5 minutes and without interruptions in the motion of the vehicle.

4) power consumption during normal operation.

ARGENTINA

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