

**VERION®**

AGRICULTURA



GPS RECEIVER **GM23**

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

The GM23 is an integrated solution of receiver and GPS L1 antenna, SIRF IV architecture-based. This positioning system meets the minimum requirements for use in automobiles, maps, security, agriculture, and much more.

It communicates with other devices through a serial RS232 port. With low power consumption, the GM23 can receive up to 48 satellites at the same time, and regain signal within less than 100 ms.

Position data are updated every 1 second. It also has a WAAS signal reception channel, which allows for greater accuracy in places where this signal is available.

FEATURES

- Positioning down to 1 Hz
- L1 GPS Band
- Positioning accuracy 1-5 meters.
- Compact design ideal for applications with a minimum of space.
- Battery charges itself during normal operation.
- The LED provides users with visible positioning state.
- Built-in WAAS demodulator.
- Waterproof design.

PRODUCT CODE

VEKGM23: 1 Hz built-in GPS antenna and receiver.



TECHNICAL FEATURES

Performance

- 1) Tracks up to 48 satellites.
- 2) Update rate: 1 second.
- 3) Acquisition time(average)
Hot start: < 1 second (open-air).
Cold start: < 48 seconds (open-air).
- 4) Positioning accuracy:
Position: 10m 90% not SA
Speed: 0.1 m / sec not SA
Time: 1 second sync.

Electrical features

- 1) input voltage: + 5.0V DC
- 2) backup battery: + 3.0 CC
(internal rechargeable lithium battery).

Output information:

- 1) latitude / length / height
- 2) speed
- 3) date / time
- 4) General states: satellite state, receiver status and error estimates.

Chipset

SiRF star IV

Environmental Characteristics

- 1) Working temperature: -20 ~ + 65 ° C
- 2) Storage temperature: -40 ~ 85 ° C
- 3) humidity: 95%

Connector

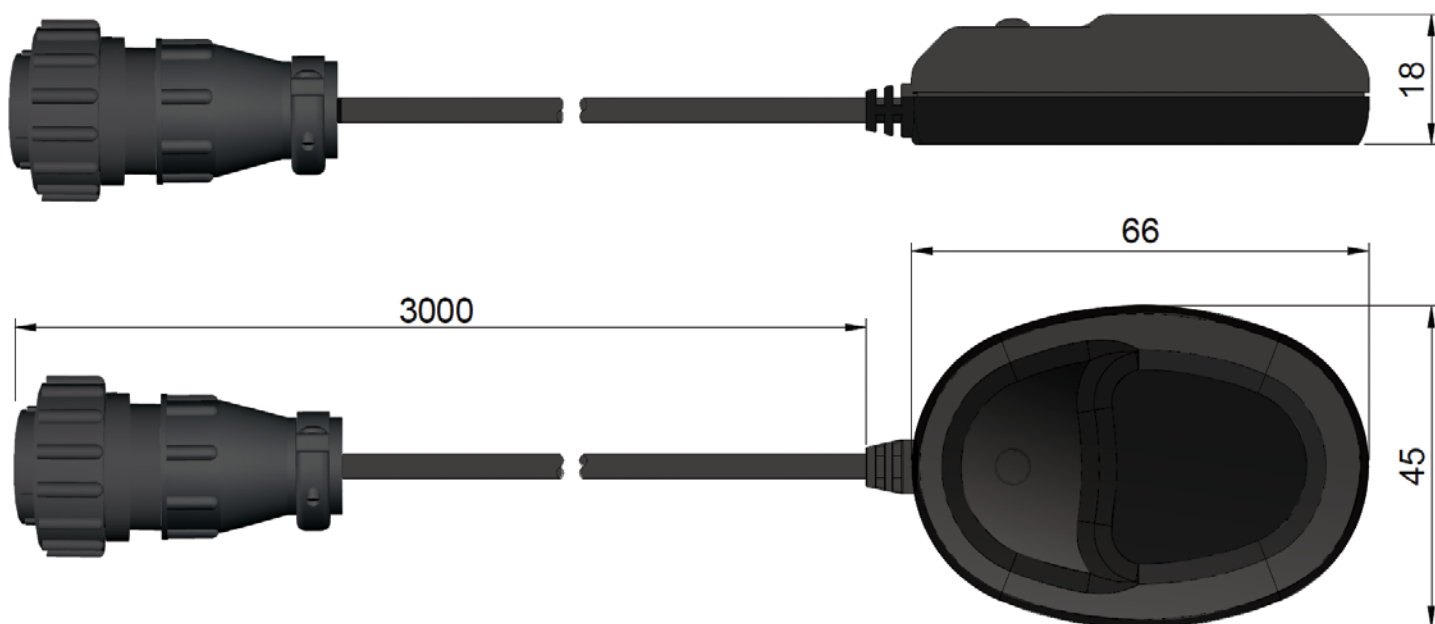
AMP CPC 9 pin
Pin 2 = Rx, pin 3 = Tx
Pin 8 = + 5 volts, pin 9 = GND

Interfaces

- 1) double channel RS232compatible level, with selectable baud rate (4800- default)
- 2) NMEA 0183 Version 3.01 ASCII output (GPGGA, GPGSA,GPGSV, GPRMC). GPGSV update rate of 1 Hz.

Physical features

66,0 (w) * 45.0 (D) * 18.0 (H) (mm)
Cable length: 3 M



ARGENTINA

Intendente Campos 1617/23, San Martín - Buenos Aires
Rotary lines: (+5411) 4724-1300 ext. 172
agricultura@verion.com.ar | www.agriculturaverion.com.ar

COLOMBIA

Trv. 93 # 53-32 Bg. 17 Parque Empresarial El Dorado
Tel: +57 (1) 467-2473/2533/2540
ventas@agriculturaverion.com.co | www.agriculturaverion.com.co