



GPS RECEIVER **AG-STAR**

RECEIVER AND INTEGRATED GPS/GLONASS L1/L2 BAND ANTENNA IDEAL FOR JOBS IN AGGRESSIVE FARM ENVIRONMENTS

Recommended for planting, spraying, fertilizing, harvesting and soil preparation applications with auto-steer.

GENERAL INFORMATION

The Novatel AG-Star boasts an integrated receiver and L1GPS + GLONASS antenna in a sturdy casing. Designed to meet or exceed the demanding MIL-STD-810G requirements. It includes magnets to simplify mounting, but can also be securely fixed with screws. The AG-Star boasts 14 channels for GPS L1 + GLONASS L1 with code and phase tracking. It allows for two channel configurations for SBAS (WAAS, EGNOS y MSAS) signals. Measurement and position data are provided up to 10 Hz. The exclusive NovAtel Glide technology is available in AG-Star. The Glide Ultra-smooth and highly accurate step-by-step precision allows for consistent and accurate positioning, which is particularly suitable for applications with manual guidance or auto-steer, where pass-to-pass precision is required, but no accurate absolute positioning is needed.

FEATURES

- Positioning down to 10 Hz.
- Glide- technology smooth and consistent positions for step-by-step applications.
- 14 configurable channels for L1 L2 GPS, GLONASS and SBAS Bands.
- Sturdy integrated casing.
- Radar-like output speed
- 12V or 24V compatible.
- 20 cm pass-to-pass accuracy.

(see technical features)

PRODUCT CODE

VEKSM6-TC: Receiver and integrated GPS Ag-Star antenna and connecting cable to Vcom.



TECHNICAL FEATURES

Channel configuration

14 channels ⁽¹⁾

Signals Monitoring

GPS	L1
GLONASS	L1
SBAS	

Horizontal position accuracy (RMS) ⁽²⁾

Autonomous L1	1.5 m
NovAtel CORRECT™	
→ SBAS ⁽³⁾	0.7 m
→ DGPS	0.5 m

Measurement precision (RMS)

	GPS	GLO
L1 C/A Code	5 cm	35 cm
L1 Carrier Phase	0.6 mm	1.5 mm

Data Rate

Measurements up to	10 Hz
Up to 10 Hz position	
Data frequency	10 Hz

PHYSICAL AND ELECTRICAL SPECIFICATIONS

Dimensions

155 mm diameter × 68 mm height

Weight <490 g

Connector Tyco Ampseal 14-pin

Mounting

2 × magnetic carriers
4 × M4 vise inserts

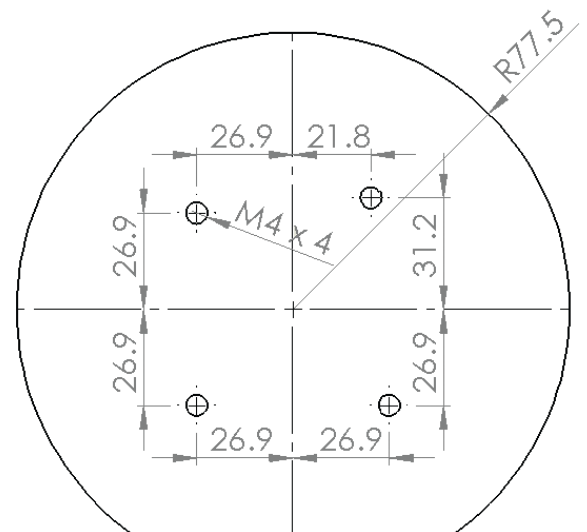
Power supply

Input voltage range +8 to +36 VDC
Power consumption ⁽⁴⁾ 2.5 W (typical)

COMMUNICATION PORTS ⁽⁵⁾

- 2 RS232 serial ports.
- 1 CAN Bus NMEA2000
- 1 Bluetooth (optional)(6)
- 1 PPS
- 1 ground speed output signal
- 1 event indication entry

MOUNTING INSERTS



GPS bottom view, measured in mm

- 1) Receives up to 60 L1/L2 satellites.
- 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) Requires Terrastar-c service subscription.
- 4) 50 Hz if receiving up to 20 satellites. 20 Hz if receiving 20 or more satellites or used with RTK Relay radio.
- 5) Power consumption during GPS operation only .
- 6) Standard cables only have the COM1 RS232 output.
- 7) Requires a RTK base and Relay system for correction signal reception.

ARGENTINA

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