

AGM-1 Guidance Receiver



Durable Manual Guidance

Designed to suit virtually any agricultural machine type, make and model; the Topcon AGM-1 receiver provides flexible manual guidance and positioning data in a compact and durable form.

FEATURES

- Scalable accuracy – Autonomous and SBAS (WAAS, EGNOS, and MSAS)
- Interface flexibility – Topcon X-Family consoles, NMEA0183 and NMEA2000
- High durability – IP69K
- TruPass™ advanced positioning technology for higher, more stable pass-to-pass accuracies in dynamic applications

*These specifications will vary depending on the number of satellites used, obstructions, satellite geometry (PDOP), occupation time, multipath effects, and atmospheric conditions. Performance may be degraded in conditions with high ionospheric activity, extreme multipath, or under dense foliage. For maximum system accuracy, always follow best practices for GNSS data collections.

Specifications subject to change without notice.
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HORIZONTAL POSITION ACCURACY* (RMS)

	Absolute	Pass-to-pass (15 min)
Standalone	1.2 m	35 cm
SBAS	50 cm	20 cm
Velocity Accuracy	0.02 m/sec	

PHYSICAL

Housing	PBT + PC Alloy housing with good chemical and UV resistance
Dimensions (h x w x d)	130.4 x 141.4 x 53 mm
Weight	250 g
LEDs	1 tri-color satellite status
Mounting	4 * M4
Connector	Deutsch DT12

ENVIRONMENTAL

Operating temperature	-30°C to 60°C (-22°F to 140°F)
Storage temperature	-40°C to 80°C (-40°F to 176°F)
Ingress protection	IPX7 and IP69K
Vibration	ISO 15003/DIN 10046 PART 8
Shock	ISO 15003/DIN 40046
Salt Spray Test	ISO 15003
Humidity	95%, non-condensing
Certification	CE, FCC, RED, & RCM

POWER

Input voltage	9-16 VDC
Consumption	<3 W

COMMUNICATION INTERFACES

RS-232 interface	2 serial ports	
	Baud rate	4800, 9600, 19200, 38400, 57600, 115200 (default), 230400 and 460800
CAN interface	1 CAN port (No internal termination)	
PPS/EVENT	Yes. Shared with second serial port	
Power on switch signal (timer enable)	Yes	

TRACKING SPECIFICATIONS

Standard Channels	224 universal channels
Tracked Signals	GPS L1/L2 BeiDou GLONASS L1/L2 QZSS GALILEO E1
Differential correction signal	SBAS (WAAS, EGNOS, & MSAS)
Cold Start	60 sec (standalone)
Warm Start	10 sec (standalone)
Reacquisition	<1 sec
Digital navigation part	Paradigm 3.5

DATA FEATURES

Format	Topcon GRIL, NMEA0183, NMEA2000
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