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

**HORIZONTAL POSITION ACCURACY** (RMS)

<table>
<thead>
<tr>
<th></th>
<th>Absolute</th>
<th>Pass-to-pass (15 min)</th>
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<tbody>
<tr>
<td>Standalone</td>
<td>1.2 m</td>
<td>35 cm</td>
</tr>
<tr>
<td>SBAS</td>
<td>50 cm</td>
<td>20 cm</td>
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<tr>
<td>Velocity Accuracy</td>
<td>0.02 m/sec</td>
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**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
  - GLONASS L1/L2
  - QZSS
  - GALILEO E1
  - BeiDou
  - SBAS (WAAS, EGNOS, & MSAS)
- Differential correction signal
- 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

*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.