

AGM-1 Receiver kit

for monitoring



The AGM-1, a Plug & Play solution, is designed to monitor geohazards like rock falls and landslides in pit mining and rail embankments. By using innovative GNSS technology, the AGM-1 provides a cost-effective approach to geohazard monitoring. It significantly reduces the initial investment required for monitoring, benefiting both mining operations and the rail industry. The AGM-1 Integration offers a turnkey solution that leverages GNSS as its core technology.

FEATURES

- » High durability - IP69K
- » Plug and Play integration

OPTIONS

- » Topcon Cloud web-service for GNSS post-processing and adjustment is available for OEM and System integrators

Physical

Housing	PBT + PC Alloy housing with good chemical and UV resistance
Dimensions (L x W x H)	107 x 125 x 64 mm*
Weight	420 g
LEDs	1 tri-color satellite status
Mounting	5/8 inch stud or bolt
Connector	Deutsch DT12 A-key

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
CAN interface	1 CAN port (No internal termination)
PPS/EVENT	Yes. Shared with second serial port
Power on switch signal	Yes (timer enable)

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Tracking Specifications

Standard Channels	224 universal channels
Tracked Signals	GPS: L1C/A, L1C, L1P, L2P, L2C GLONASS: L1C/A, L1P, L2C/A, L2P GALILEO: E1 BEIDOU: B1, B2 QZSS: L1C/A, L1C, L1SAIF, L2C
Differential correction signal	SBAS (WAAS, EGNOS, & MSAS)
Positioning accuracy**	Static/Fast Static (L1+L2) Horizontal= 3 mm + 0.9 ppm** (x baseline length) Vertical= 7 mm + 0.8 ppm** (x baseline length)

Data Features

Format	Topcon GRIL, NMEA0183, NMEA2000
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* Dimensions without connector and with bracket

** Tested till 40km baselines

Specifications subject to change without notice.

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