

AGM-1 Receiver

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
- Connectivity with Topcon Cloud web-service for GNSS postprocessing and adjustment

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
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: 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

* tested till 40km baselines

