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: -30ºC to 60ºC (-22°F to 140ºF)
- Storage temperature: -40ºC to 80ºC (-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
  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*:
  - 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 40 km baselines