

Monitoring of the Litzirüti rock tower, Arosa Automatic rock monitoring



- 📍 Arosa, Switzerland
- 👤 Rhätische Bahn
- 🕒 Since 2021

Leistungen

- ◆ Development of monitoring concept
- ◆ Installation and operation of TEDAMOS GNSS and meteorological stations
- ◆ Display of all measurements on the TEDAMOS web portal
- ◆ Alarm when limits are exceeded

Technologien

- ◆ 5 solar-powered TEDAMOS GNSS stations (incl. 1 reference)
- ◆ 1 LoRa weather station
- ◆ TEDAMOS Web, password-protected customer portal with 24/7 access

Above Litzirüti (municipality of Arosa), a rock tower measuring approximately 12,000 m³ and 50 m in height is threatening the tracks of the Rhaetian Railway below.

A deep understanding of the movement mechanism is of central importance for hazard management. To monitor the 3D movement, three GPS stations were installed on the rock tower and a fourth at the foot of the tower. Thanks to the meteorological station, the measurement results can be directly correlated with the weather conditions.