

Alberding A07-N-11 Positioning and Telemetry System:.



ALBERDING A07 MONITORING SYSTEM



What is needed

- 1 Alberding A07 GNSS reference station (possibly already existing)
- 1 Alberding A07-MON system per measuring point with:
 - L1 GNSS antenna
 - · Continuous power supply
 - · Mobile phone SIM card with mobile Internet contract
 - Access to the Alberding Monitoring Server
 - Survey mast with GNSS antenna

- L1 GNSS multi-constellation receiver (GPS, GLONASS, Galileo, SBAS)
- Sub-centimetre accuracy due to post-processing of GNSS raw data
- Weatherproof box (IP67) with connectors
- Autonomous operation mode utilising solar panels, batteries and charge controller
- Integrated, wireless communication

Procedure

In advance

- Configuration of A07-MON sensors
- · Provide access to the Alberding Monitoring Server

In the field

- Set up the A07-MON systems with weatherproof box
- · Verify GSM mobile coverage
- Turn on the A07-MON receivers



Results

The measurements of the A07-MON monitoring system are automatically transferred to a server of Alberding GmbH. Here, the data of the A07 rovers along with the reference station is processed and visualised in defined intervals. Depending on the interval (e.g. 1h or 24h) coordinate changes of < 1cm can be detected. When exceeding a pre-defined threshold, an alert message is sent immediately. The system's web interface can be accessed via the web browser with customer specific parameters.

A07-MON:

Easy set up and automated evaluation with low-cost GNSS systems.

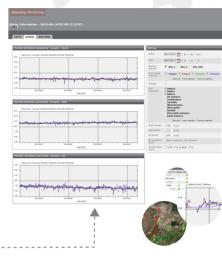
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.: Alberding GNSS Monitoring Software:.

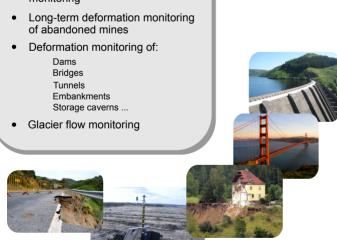
THE LOW-COST SOLUTION FOR YOUR MONITORING TASK GNSS data management Automatic processing at user-definable intervals Short or medium baselines, VRS Solution comparison: 1h, 4h, 12h, 24h GNSS reference station A07-MON 1 GNSS raw data RINEX data Alberding GNSS-(post-) A07-MON 2 **EuroNet** processing software (WA_1) Software A07-MON n



- Comfortable access via the web interface
- Visualisation of time series, PDF reports, CSV output, database
- Alarming email/ SMS

Application fields

- Landslide monitoring
- Surface subsidence monitoring of underground operations
- Open-cast mine high wall stability monitoring



The Alberding GNSS monitoring software is offered as a processing service by Alberding GmbH.

Processing example

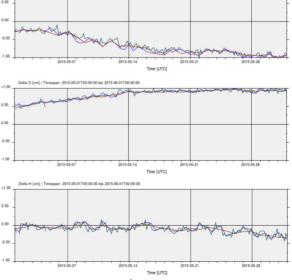
Period: 01.05.2015 - 01.06.2015 Baseline: 383 m Y scale: 1 cm

Reference station: A07-N-11

Rover: A07-N-11

Processing intervals*:

GREEN: 4 hours **PURPLE**: 12 hours RED: 24 hours



*1h solution is omitted in favour for readability