



Overview

- Automated operation on local computers or internet servers
- Web-based user interface
- Different user rights
- Customized reports
- Alerting via e-mail and SMS
- Data transmission to external systems

Sensor system

- GNSS RTK and Near-Online Processing
 - Alberding A08 sensor systems
 - Receivers from other manufacturers
- Total station measurements
- Inclination sensors
- Weather stations
- Geotechnical sensors

Software description

The Alberding Monitoring Software (AMoS) is used for an automated monitoring of objects and conditions. The web-based software application can be operated on local computers near the monitoring objects (e.g. in container at a construction site) or on Internet servers. Different user rights (admin, user) can be assigned using user-specific passwords. In a service-based model, Alberding GmbH takes over the installation, operation and support of the software.

AMoS records measurements from various sensors or digitally provided data via definable interfaces and stores them in an internal database. The monitoring parameters can be the recorded data (distance, angle, temperature, etc.) or values derived from the measurements. Examples for calculation are coordinates derived from distance and angle measurement of a total station or 3D-baselines derived from GNSS raw data processing. AMoS allows the combination of GNSS and total station measurements.

The measurements and calculation are visualized relative to a reference value in different graphs as a time series plots. For automated reporting issues, the monitoring results can be summarized and exported in customer-specific protocols in definable time intervals (e.g. monthly) or exported to external monitoring or database systems. If monitoring results exceed definable threshold values, an alarm is automatically sent to the group of people defined by the user.

AMOS - THE COMPLETE SOLUTION FOR YOUR MONITORING TASKS

- GNSS receivers**
 - various manufacturers
- External sensors**
 - Hose scale
 - Vibration
 - Weather
 - Inclination
 - Deformation
 - Acceleration
 - Pore water pressure
- Total station**

AMoS

- Project and user control
- Status overview of the stations
- Display of the warning status
- Time series graphics
- Availability statistics
- Evaluation of external sensor data
- Comparison of measurement data
- Project-based evaluation
- Flexible data flow

- Alerting**
 - E-mail, SMS
 - Warning light
- Documentation**
 - Reports (PDF, CSV)
- Graphics**
 - e.g. output in png

AUTOMATED GNSS MONITORING USING THE NEAR-ONLINE METHOD

