Monitoring

Axis3D MON

Field solution for trigonometric deformation measurements

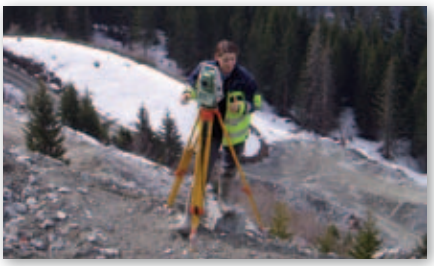
Short measuring times: Automatic target positioning using pre-defined target heights and reflector constants.

Flexibility: Switch quickly between automatic and manual measurement. Freely choose observation order of reference, orientation, and monitoring points.

Intuitive user interface: Workflow optimized for fieldwork – developed by surveyors for surveyors.

No additional hardware: On-board software for Leica Geosystems total stations TPS1200, TM/TS30, Viva and Nova total stations.

Stationing



The station position is calculated using standard Leica functions. This allows Axis3D MON to automatically identify point IDs and measure targets.

Setup and Orientation

Measure to reference points for post-processing of position, height, and orientation.Assigning point IDs and positioning to targets can be automated.

Deformation Measurement

Change quickly between automatic and manual measurements. Take sideshots or interrupt deformation measurements for manual profile checks or other observations at any time without exiting the program.

System Information

Hardware
- Leica Geosystems TPS1200 total station
- Leica Geosystems TM/TS30 total station
- Leica Geosystems Viva total station
- Leica Geosystems Nova total station

Software
- Axis3D MON On-Board Software for Leica Geosystems TPS1200, TM/TS30, Viva and Nova total station

Related Products
- Axis3D GTM - Geotechnical Monitoring
- Axis3D NET - Network Adjustment
- Axis3D SET - Sets of Angles

Axis3D MON Functionality

General
- Measurement data stored in ASCII files in Leica GSI8 or GSI16 format, and the on-board database (Viva and Nova)
- Point coding consistent with other Axis3D products
- Making use of Leica Viva Imaging functionality (coming soon)
- Optional: logging of all activities on the total station
- Program continues after power fail

Reference Points
- Unlimited number of reference points
- One- or two-face measurements
- Automatic detection of point IDs for manual measurements
- Automatic positioning after entering point ID
- Automated target recognition (ATR) measurement using pre-defined target
- heights and reflector constants
- All target points stored for repeat measurements

Orientation Points
- Unlimited number of target points
- One- or two-face measurements
- Automatic detection of point IDs for manual measurements
- Automatic positioning after entering point ID
- ATR measurement using pre-defined target heights and reflector constants
- All target points stored for orientation checks

Deformation Points
- Unlimited number of deformation points
- One- or two-face measurements
- Automatic detection of point IDs for manual measurements
- Automatic positioning after entering point ID
- Automatic targeting of all points in a chainage or point ID range
- ATR measurement using pre-defined target heights and reflector constants
- Automatic orientation checks

Other Points
- Manual measurement to other points, e.g. profile checks or points at the tunnel face
- One- or two-face measurements

Customers

DIBIT Measuring Technique

Rhomberg Sersa Rail Group

Stolitzka & Partner Civil Engineers

Vorarlberger Illwerke AG

Applications

Tunneling
Geotechnical measurements

Existing Structures
Periodic observations

Slope Movements
Geomonitoring

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