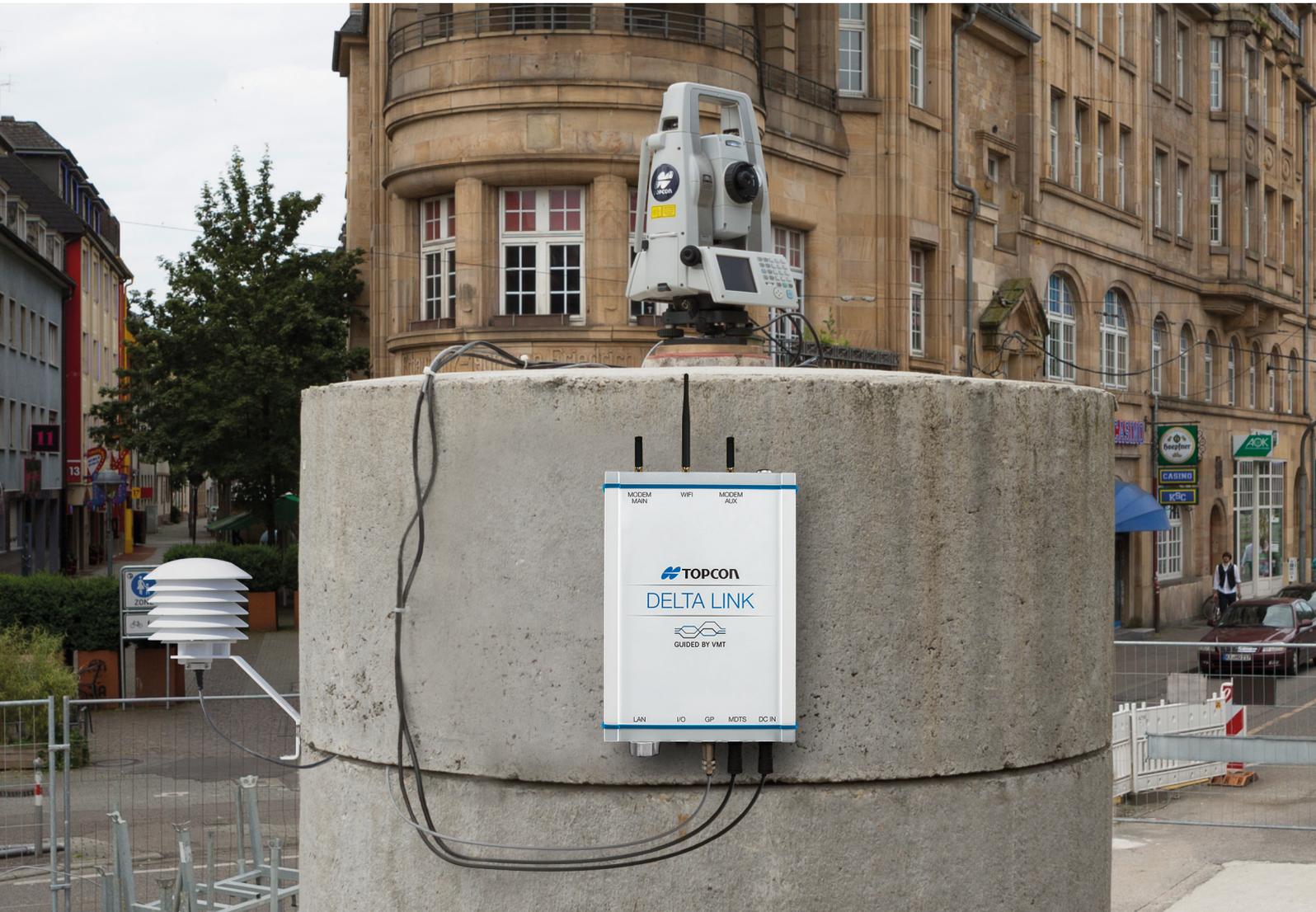


Topcon Delta Solutions

Deformation Monitoring System



Complete Autonomous
Monitoring Solution

Learn more at topconpositioning.com

 **TOPCON**



Geosensor Networks Made Easy

Delta Solutions

Topcon Delta Link Unit

The Delta Link is the perfect device to manage and control your monitoring total station in the field. Powered by a single 24V DC input. Communication options include Ethernet, Wi-Fi, and a globally approved integrated cellular modem (data SIM provided by third-parties). The standard configuration comes with a temperature and barometric pressure sensor.

Topcon Datalog

Accessed via a secure web portal, Datalog provides an intuitive interface to manage observations, target types, and measurement scheduling. Datalog provides a simple platform for advanced functionality - unique Topcon features such as matrix detection are instinctively controlled through the software.

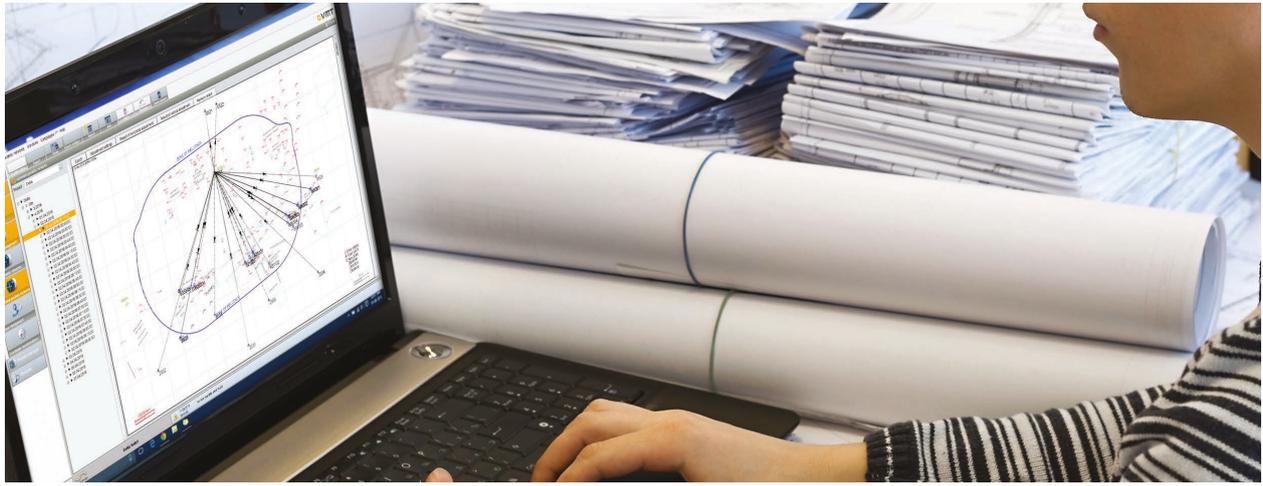
Data Continuity

Datalog will continue to operate the total station if communication with the Delta Watch database fails. Once communication has been restored, data is synchronized and the main database is updated. No loss of data ensures continuity in the representation and reporting of deformation information. With complete data sets, a thorough understanding of the asset in focus can be determined.

- » High-flexibility through the recording and processing of motorized total station and environmental sensor data
- » Integrated communications for remote connectivity
- » Network adjustment and analysis with automated quality control including elimination of outliers
- » Scalable and robust hardware
- » Reporting, visualization and alarm features

Alerting project events

Should measurements exceed project alert thresholds, notifications are distributed via email or SMS message. Customizable reports are distributed on a schedule or following an alert.



Topcon Delta Watch

Delta Watch software provides a modular solution to monitor, manage and evaluate automatic and/or manual monitoring data as well as optionally trigger alarms. Data from robotic total stations, GNSS receivers, digital levels, and a variety of geotechnical and structural sensors can be processed and analyzed individually or as a network-adjusted solution. As standalone software, Delta Watch delivers accurate and reliable data in a variety of reporting formats to best fit a project's needs. The

Delta Live! component allow data to be visualized in a web browser for viewing from anywhere. Alternatively, processed data can be interrogated via the restful API by third-party visualization software to provide system integration capability in large monitoring projects. Network adjustments are carried out using modern and robust least-squares techniques with all results available for analysis within Delta Watch.

Guided by VMT

Guided by VMT features the best-selling navigation systems in tunneling worldwide. Since 1994, VMT has equipped thousands of tunneling projects with navigation, information, monitoring, and communication systems.



Topcon MS AXII

- Angular accuracy option of either 0.5" or 1"
- Reliable distance accuracy of 0.5 mm
- Automated matrix detection and target acquisition



Customizable Modular Solution



Topcon Delta Link

- Autonomous operation in the field
- Various on-board communication methods
- Powered by a single 24 DC input
- External environmental sensor



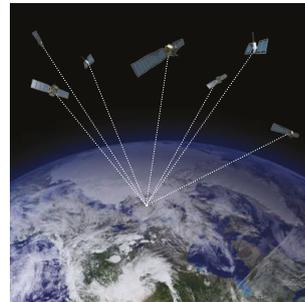
Topcon Delta Watch

- Core software performs computations, asset management alerts and customized reports
- Observe, assess, and better understand and manage risk
- Modular offering to grow with you as your projects evolve



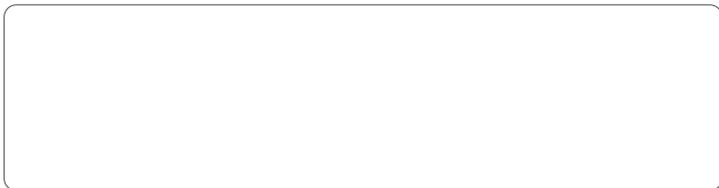
Topcon Deltalog

- Standard within Delta Link hardware
- Set observation parameters
- Start and stop sessions
- Remote management services



Topcon Delta Sat

- Optional software module to Delta Watch product
- Include GNSS observations with monitoring projects
- Allows for combination of GNSS and total station network adjustments



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Learn more at [topconpositioning.com](https://www.topconpositioning.com)

