

AMBERG TRACKCONTROL

For seamless monitoring of your railway tracks



A new level of safety

- Data acquisition takes place reliably once every minute
- The system works independently of weather-related restrictions such as rain, snow or fog.
- Even standing or passing trains cause no problems for the geotechnical sensors.
- Highest safety for railway operation due to high measurement accuracy, reliability and application of advanced methods of analysis.
- Low personnel and maintenance costs thanks to simple and compact design.
- With the GEOvis 4.0 platform, real-time measurement data can be retrieved, visualized and analyzed at any time and from anywhere.
- The integrated alarm function informs you in real time by email or SMS.

A modular system tailored to your project

- With just one measuring station: Monitoring of up to 420 sensors or up to 400 m track length in accordance with the Swiss guideline (distance between measurement profiles 4,8 m) or 315 m Euro guideline (3,0 m).
- Monitoring can be extended as required with additional measuring stations.
- Increased efficiency thanks to innovative magnetic sensor mounting solution.
- Quick and easy installation, extension and deinstallation without obstructing railway operations.
- Measurement of absolute and/or relative track deformations using georeferencing of sensors.

The essential information in real time

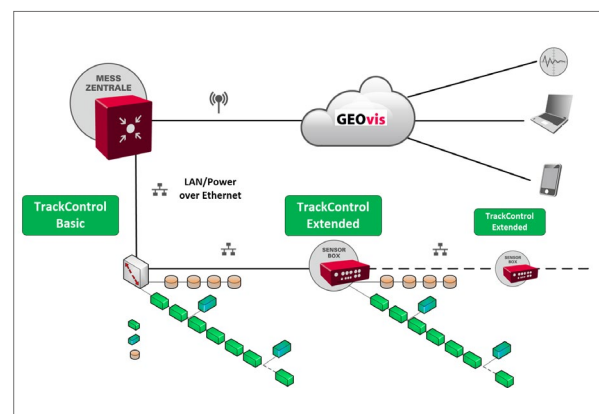
- TrackControl reliably measures track distortions, cant, versine vertical and settlement.
- The system is suitable for the following areas of application:
 - For construction sites close to railway tracks.
 - For underpassing construction measures (pipe jacking, tunnels, underpasses, etc.).
 - When using auxiliary bridges.

An internationally proven system

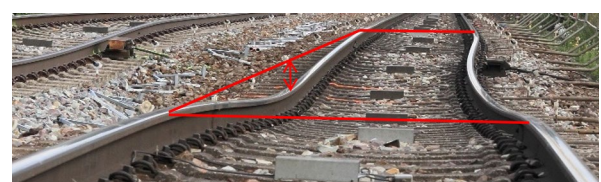
- Amberg TrackControl is successfully used in projects in Switzerland and other European countries.
- With our international partner network, we guarantee a reliable customer support.



Maximum safety for railway operations around the clock



Layout Amberg TrackControl



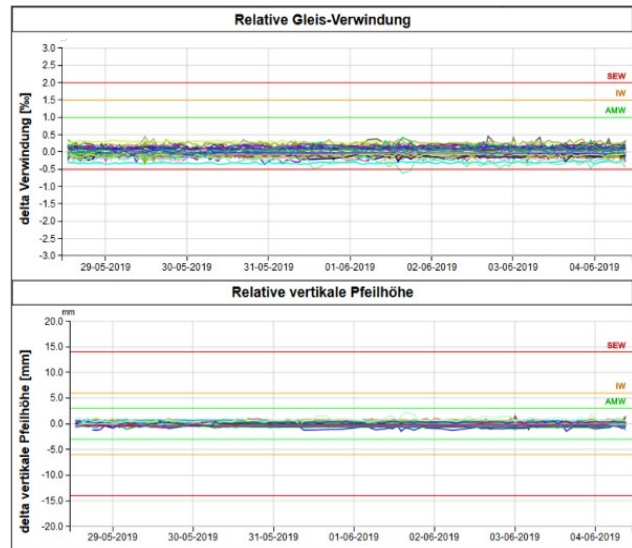
Picture above: Twist [‰]

Picture below: Vertical versine [mm]

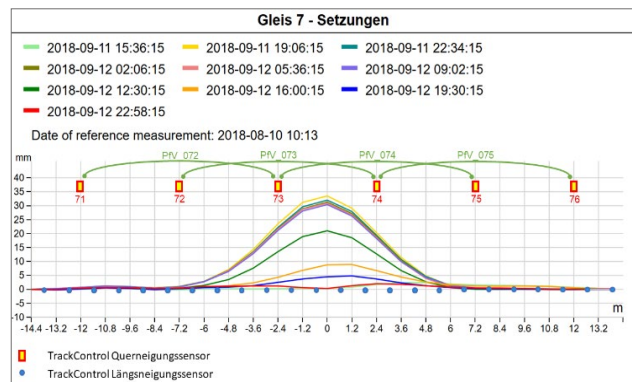
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Technical data & visual examples

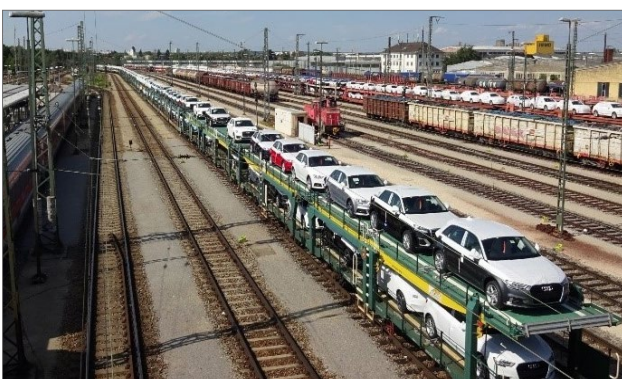
Data acquisition	
	Accuracy
Superelevations	+/- 1.0 mm
Twist	+/- 0.2 ‰
Vertical versine	+/- 1.0 mm
Vertical settlement	+/- 3.5 mm
Temperature limitations	-20° C to +80° C
Measurement frequency	1x per minute (For special applications, shorter measurement intervals are possible)
Data visualization	
<ul style="list-style-type: none"> ■ Overview maps ■ Sensor status profiles ■ Track deformation curves (twist, vertical versine, settlement deformations) ■ Temperature-time curves 	
References	
<p>Amberg TrackControl is a proven track monitoring system, which is successfully used in projects of national and private railway companies in Switzerland, Germany and France. The reliable alarming during past failures proves the high functionality of the system. With TrackControl, you always have your track movements under control and increase the safety of your railway infrastructure.</p>	



Example visualization of twist and vertical versine incl. alarm limits



Example of a settlement diagram



Application example: Real-time monitoring during press pipe driving below operating tracks.



Efficient installation with the latest generation of sensors! Amberg TrackControl with flexible plug connections and innovative magnet fastening.

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