

**AMBERG GEOMONITORING**

# Relevant information around-the-clock

Amberg GeoMonitoring - Tailor-made solutions for your  
project safety.

 **AMBERG**  
INFRA 7D



# AMBERG GEOMONITORING

RELIABLE. FLEXIBLE. SAFE.



Innovative technology for the safety of your infrastructure - that is what Amberg GeoMonitoring offers you.

The system in combination with our first-class service supports you in every project phase: from the conception to the interpretation of the collected data.

Amberg GeoMonitoring is characterized by highest safety and is individually adapted to your project. More security and consistent monitoring means cost efficiency and a reduced damage risk for you.

## Customized infrastructure monitoring

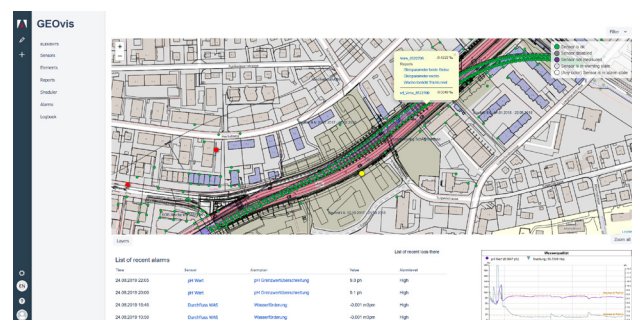
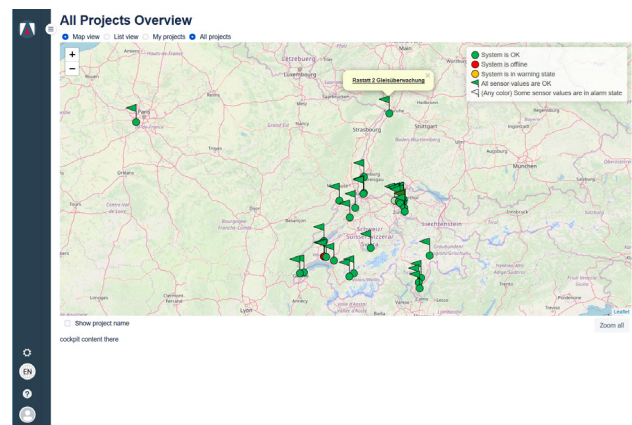
Together with you, we analyze the potential hazard scenarios and develop individual monitoring for your project: from simple manual measurements to digitized monitoring networks. Our digital monitoring system is characterized by maximum security and cost efficiency. This saves time and money and guarantees a consistent flow of information.

## Guaranteed safety reduces risk

- High reliability thanks to redundant construction
- Fully automatic self-control of the system
- Mature communication technology for secure data transmission
- Bridging of power failures thanks to integrated uninterruptible power supply (UPS)
- Intelligent power management, also with solar operation

## GEOvis 4.0 - Digital, safe and reliable

- GEOvis 4.0 enables the efficient administration of projects with sensor data. Import, process, visualize and export measurement data anytime and anywhere
- Web portal GEOvis 4.0 Login-Ins with customer-specific access rights
- GEOvis 4.0 automates data exchange and includes digital processes such as IoT, cloud computing and decentralized, cross-interface communication



# TAILOR-MADE SOLUTIONS

## ACCORDING TO YOUR REQUIREMENTS



### The right sensor for every task

The GeoMonitoring system enables the integration of a variety of sensors and can also calculate virtual sensors (e.g. in case of track twisting). When evaluating, you can easily combine the data of different sensors.

Sensors	
Totalstation	Crack measurement
GPS/GNSS	Water pressure, pore water pressure
Laser scanner	Water level, water flow
Auto level	PH-Measurement
Radar interferometry	Water turbidity
Vibration	Temperature, humidity
Inclinometer	Air pressure, wind speed
Extensometer	Solar radiation
Tension/expansion	Webcam
Anchoring force	Amberg SlopeControl
Amberg TrackControl	etc.

If you already have your own specific sensors, our software and hardware development will take over project-specific adaptations or implement your sensor types in the GeoMonitoring System.

### The complete GeoMonitoring System for your project

- Everything from a single source: concept, consulting, instrumentation, measurement, evaluation, alarming, visualization on GEOvis 4.0, interpretation
- Short intervention times through remote control

### Your GeoMonitoring as our complete service

myGeoMonitoring – the proven offer model for Amberg GeoMonitoring partner companies enables you to independently and easily calculate the expected costs of a project over the entire monitoring period on the basis of the measurement concept.

The flexible offer ranges from system rental to comprehensive services.

Our range of services is cost-effective and fair. Instead of investing in measuring systems and software, you only pay for the services provided and always operate with state-of-the-art technology.

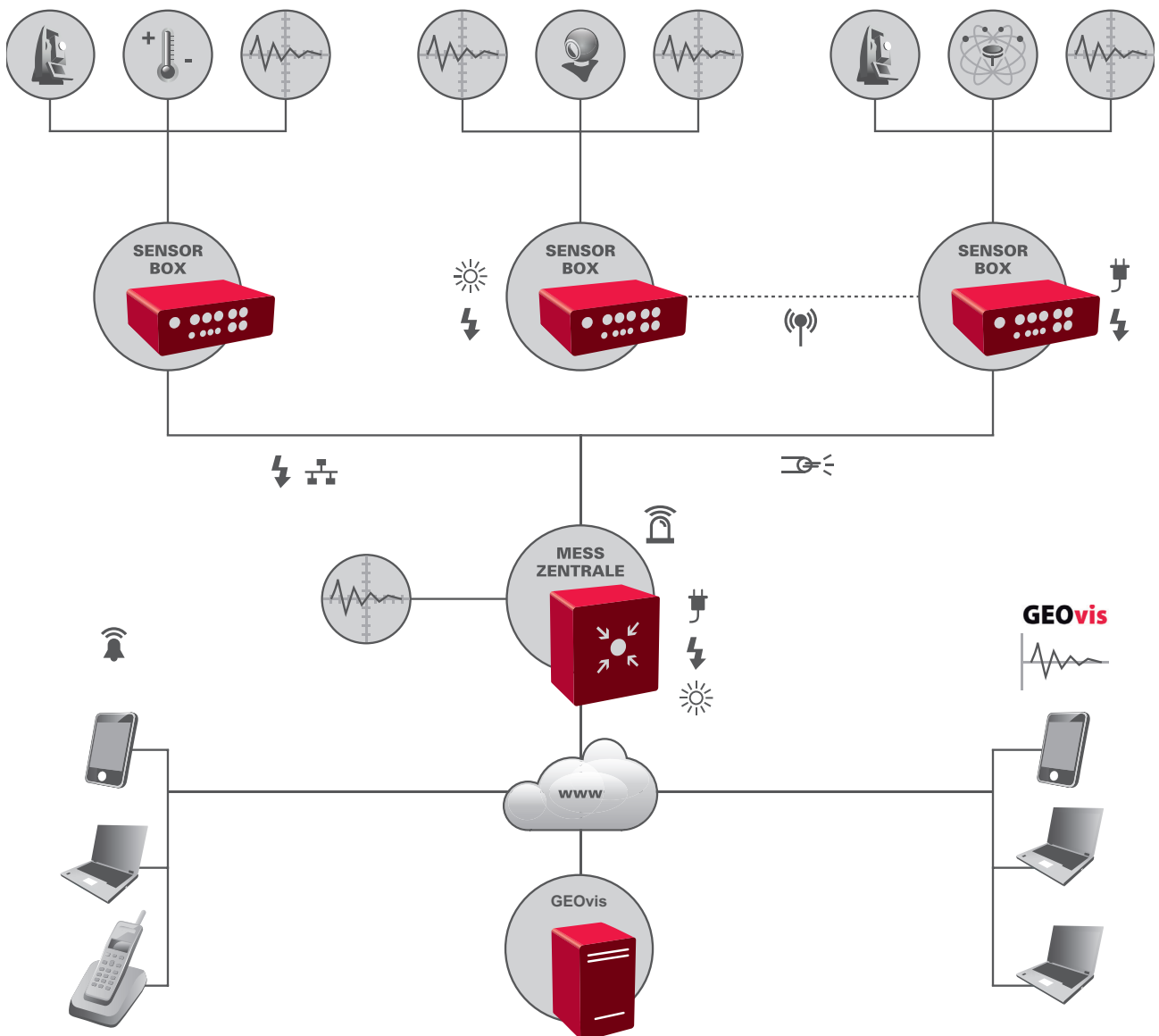
# AMBERG GEOMONITORING NETWORK

With the GeoMonitoring System, Amberg Infra 7D offers you the next generation of geomonitoring solutions.

- Scalable geomonitoring network: The modular structure guarantees high flexibility and cost-effectiveness for every project size and phase.
- Sensors for almost every task: In addition to a wide standard range of geotechnical, geodetic and climate

sensors as well as Amberg's own developments (Amberg TrackControl and SlopeControl), further specific sensors can be easily integrated.

- Modern data communication and high system security: Ethernet with power transmission, WLAN for long distances, fiber optic cables for electromagnetic sensitive environments or the integrated lightning protection guarantee high system availability with low installation and maintenance costs at the same time.



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