

MONITORING OF VERTICAL DISPLACEMENTS

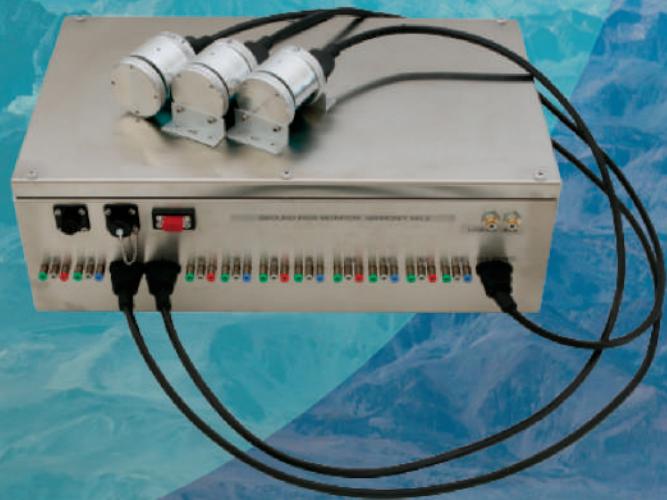
# GRIMONIT

GROUND RISK MONITOR

EARLY DETECTION OF HEAVING  
OR SUBSIDENCE

- Detects movements at millimeter range
- Increased safety through precise measurements
- Remote access to device and measurement data
- Real-time monitoring

MINING  
BUILDINGS  
LANDSLIDES  
ROCKFALL  
INFRASTRUCTURE  
DAM SAFETY



GRIMONIT

edi meier + partner

# GRIMONIT

## INTEGRATED REMOTE MONITORING SOLUTIONS FOR STRUCTURAL AND GEOTECHNICAL APPLICATIONS

**GRIMONIT** is a hydrostatic measuring system characterized by its high accuracy and sensitivity in detecting vertical displacements at millimeter range.

It is particularly suitable for geological measurements, especially for monitoring and early detection of landslides or vertical displacements.

With its capability to measure up to twelve measurement points, self-calibration feature and wireless data transmission, GRIMONIT is a practical and effective tool for risk assessment and in time warning of potential hazards.

Furthermore, GRIMONIT allows measurements to be taken in locations that are difficult to access such as forested areas or within horizontally running pipes and beneath snow. It is suitable for both long term monitoring and periodic measurements, making it versatile in its applications.

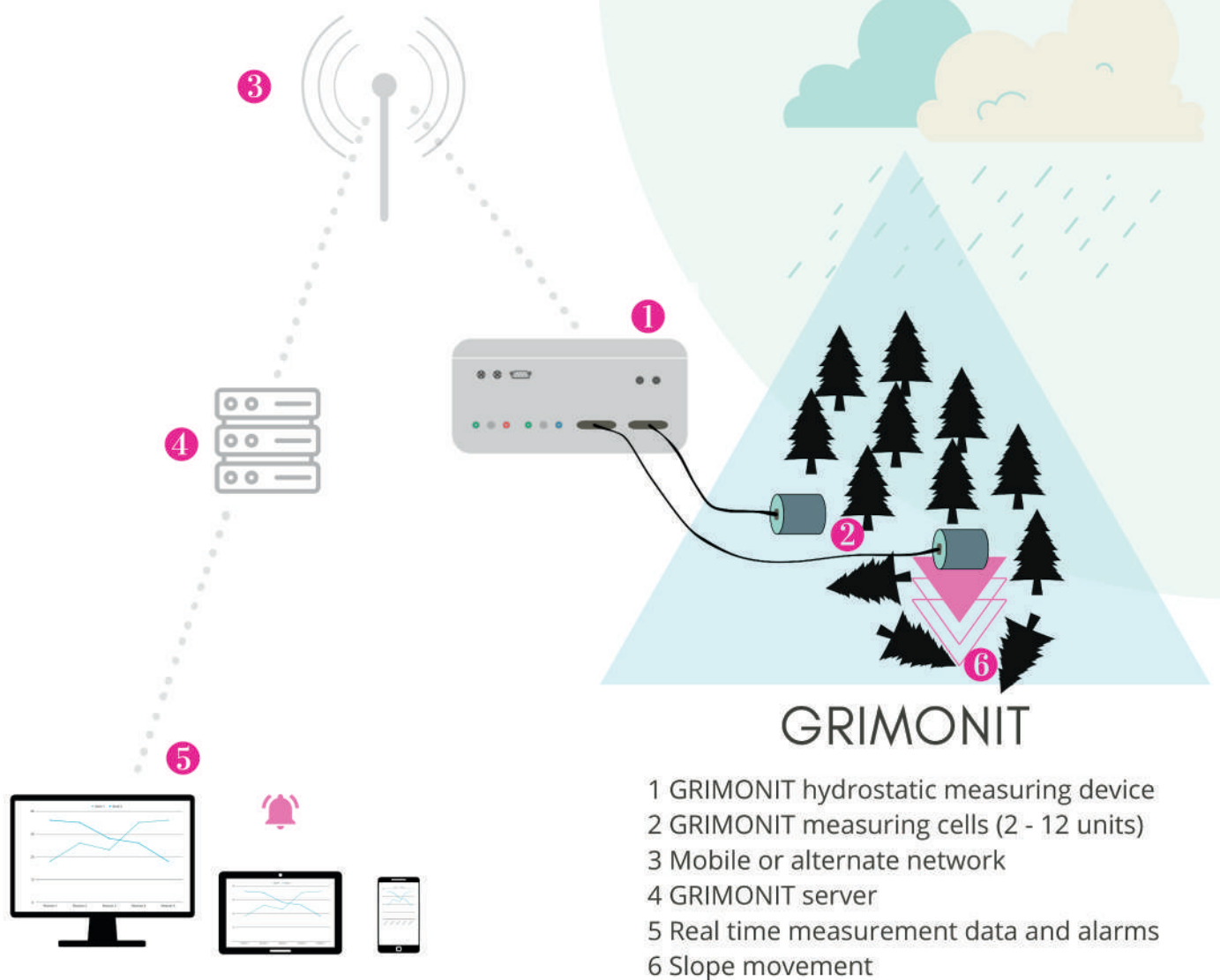
The measuring cells can be buried, installed or securely mounted at the measurement location. Unlike real time monitoring in long term measurements, during periodic inspections the GRIMONIT device only needs to be connected to the installed measuring cells when an update of the values is required.

GRIMONIT is a powerful instrument for geotechnical investigations, risk assessments, and early detection of changes. It significantly contributes to the safety of structures and infrastructure.



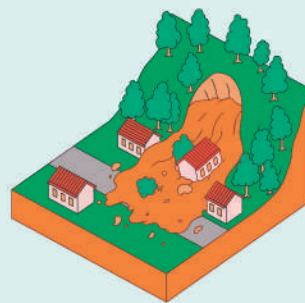
Monitoring using robust and reliable hardware is an integral part of the GRIMONIT system.

For professionals responsible for natural hazards and infrastructure monitoring is GRIMONIT the ideal instrument for quickly and cost-effectively establishing weather-independent 24/7 monitoring in real time.



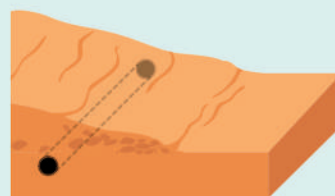
## SLOPE AND EMBANKMENT MONITORING

GRIMONIT enables precise detection of movements in slope monitoring. Early warnings of landslides and displacements are possible, allowing for the initiation of protective measures.



## UNDERGROUND MONITORING

GRIMONIT is ideal for monitoring horizontal inclinometer pipes and detecting landfill settlements. Exact measurements along the pipe axis enable reliable monitoring to detect potential hazards in time and take action.



## STRUCTURES AND INFRASTRUCTURE MONITORING

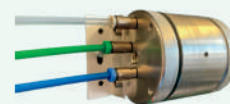
GRIMONIT monitors structures and infrastructure. Early detection of movements and deformations allows damage prevention and ensures structural integrity.



GRIMONIT measuring device



GRIMONIT measuring tube  
(standard up to 50 m, extendable up to 1 km)



GRIMONIT measuring cell  
(customized solutions possible)

For further information, please visit our website

[www.emp-winterthur.ch](http://www.emp-winterthur.ch)

OFFICE FOR GEOTECHNICAL  
AND GEOPHYSICAL  
MEASUREMENT  
REMOTE MONITORING SYSTEMS



scan the QR code to learn more

or feel free to give us a call

edi meier + partner

EDI MEIER + PARTNER AG  
SCHÜTZENSTRASSE 1  
8400 WINTERTHUR  
INFO@EMP-WINTERTHUR.CH  
T: +41 52 222 82 72