

Case study

Monitoring solution for roof structures

July
2014



Project roof monitoring sports hall

Client:

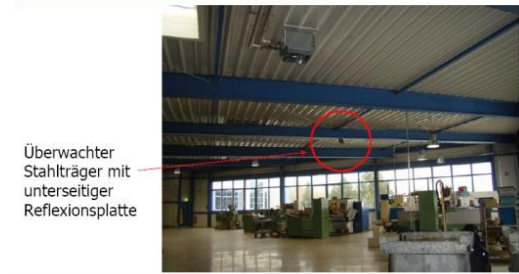
State client/sports hall

Initial situation:

Following the climatic changes and the subsequent installation of PV systems on roof structures, it is necessary to monitor compliance with static limit conditions.

Furthermore, a direct optical/acoustic alarm should be given when the limit values are exceeded.

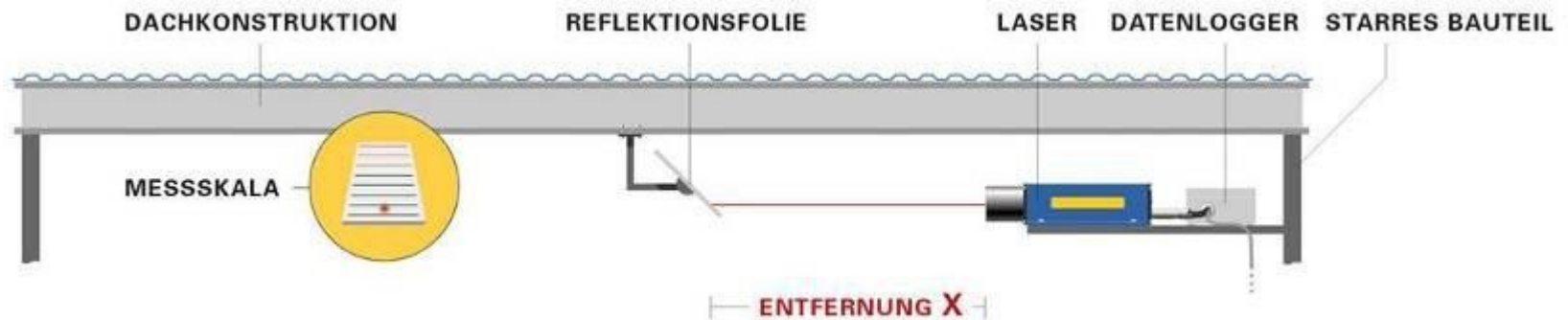
Ansicht Dachkonstruktion mit HEA 500

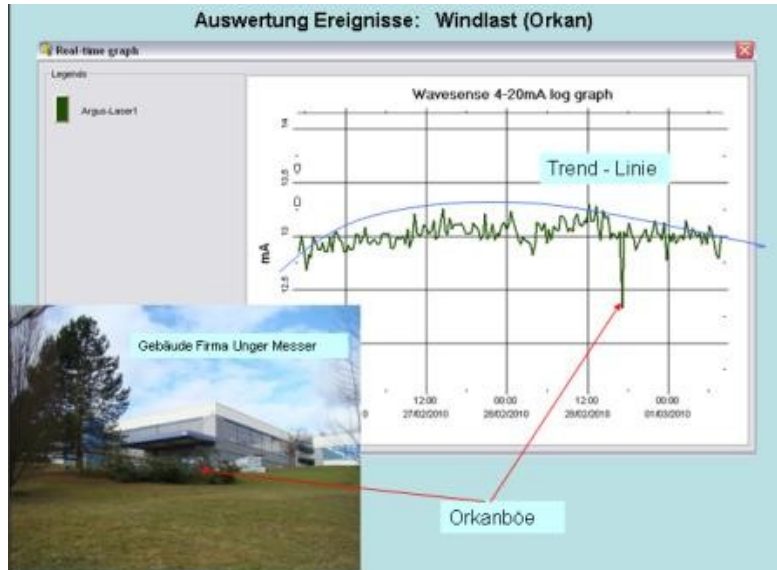


Solution:

A compact monitoring system developed by BS2 Sicherheitssysteme was used based on a laser Distance measurement.

The scope of application is very versatile and, in addition to material goods, primarily safeguards the health of the people staying in the building in question.





The data was read out by remote transmission (via GPRS) with visualisation of the information at one PC workstation, more, or an alarm (visual/acoustic) on site.

Added value:

- ✓ Possibility of installing PV systems (additional superimposed loads due to modules) on roof structures
- ✓ Timely alarm before reaching static limit states
- ✓ Safeguarding for static limit states (unknown construction, large wind/snow loads, etc.)