



## WILL OUR MONITORING SYSTEM WORK IN DESERTS?

Using our technology, we have built a 100% successful surveillance system working over a distance of more than 40 km without power and resistant to harsh deserts.

### INITIAL STATE

- ▶ optical fiber present
- ▶ no local power supply

### CLIENT REQUIREMENTS

- ▶ verification of the system performance over long distances
- ▶ verification of the sensor's performance in demanding environments

### ABOUT THE CLIENT

- ▶ one of the largest telecom providers

## BENEFITS OF THE SOLUTION



### Full control over distant infrastructure not having electricity

No power is needed for monitoring. Optical fiber ensures permanent surveillance of remote infrastructure. Field tests demonstrated successful supervision of locations over 40 km from the monitoring unit.



### Minimizing the profit loss by detecting attempted intrusions

Early detection through vibration monitoring allows quicker reaction time to prevent service interruptions.



### Resistant and immune to harsh environments and weather

Optical fiber and sensors are fully passive and have been tested in harsh environments, including deserts, proving immunity to lightning, electromagnetic interference, and insufficient wireless coverage.





## SOLUTION

Our intrusion detectors were installed in two telecommunication distribution chambers. The distance between them and the FBGuard measuring unit was over 40 km.

For over a month, the customer randomly tested the system's response to attempted access to the chambers, and the success and speed of evaluation of the alarm state.

The testing was 100% successful in detecting intrusions and verifying the system's suitability for use in deserts.



## GALLERY



## WHY WORK WITH US?

Our company was invited to the project thanks to our professional expertise and experience in providing fiber optic sensing systems for monitoring service chambers, cabinets, entrances, and shafts.

One of our specialties is the development of the most economical solutions for monitoring many objects spread over a large area without a local electricity supply.



FBG technology is the most suitable solution where conventional procedures fail or are not viable because of routine operation.



The system minimizes the number of false alarms by using advanced algorithms.



It is very durable and, if installed correctly, and protected from the environment, can be operated with minimal maintenance and servicing.

**GET IN TOUCH WITH US**  
and we will recommend you the most suitable solution for your project.

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