

Archaeological Sites Monitoring

Temple of Segesta



WSD12-4D

Capetti
ELETTRONICA
DAL 1973

Background

This spectacular Doric temple was built in the 5th century BC and is situated in the province of Trapani. A structural monitoring system was optimised in agreement with the works management, to log any temple movement or subsidence.

The solution

The system installed has pairs of transducers positioned at the height of the architrave on the inside, to monitor movement in the horizontal axis, and additional potentiometers on the inside and outside at the second front column to the east. These sensors are connected to WineCap™ dataloggers, which carry out sampling every 10 minutes, and send the data wirelessly to a control unit located near the temple. All CAPETTI dataloggers have internal temperature probes to be able to relate the measurements obtained to environmental conditions.

The result

The control unit is self-powered via a photovoltaic panel, and the data are logged within it and sent to the online Service Centre, enabling the clear, convenient and continuous monitoring of the archaeological site.

The winning choice 

- ✓ WSD12-4D (displacement measures)
- ✓ WSD12T-DD (cracks extension)
- ✓ MWDG-GSM (gateway)
- ✓ BOX-PPS (photovoltaic power supply)