

DIMETIX APPLICATION EXAMPLE

AE-0305

MONITORING OF HISTORICAL TOWER

Industry : Geodesy
Application type : Monitoring

Brief description



Pic 1: Dimetix Sensor installed at the historic building "Blauer Turm" in Germany.

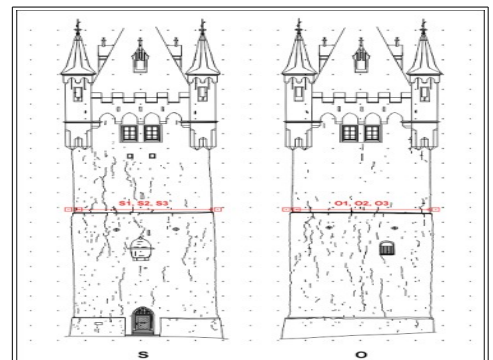
Geodetic permanent monitoring of historic buildings are to support redevelopment concepts.

Historical buildings, including church buildings, are part of the cultural and social property, whose conservation is not only in the interests of the owners, but also in the public interest through the ordinance on the protection of monuments. In particular, when structural damage occurs, which necessitates a static consolidation, the potential damage caused by the often existing precious and delicate works of art, such as frescoes, ceiling ornaments, etc., is considerable. Therefore the protective and security measures to be taken are usually costly. An engineering company has developed a monitoring concept with Dimetix sensors, which monitors the movements of the historical building and elaborately investigates them. As you can see in Fig. 2, 4 FLS-C

10 sensors were needed to monitor the external walls of the tower. Three additional FLS-C10 lasers measure the distance wall to the stairwell. With this system the every movement of the building is on record.

Customers advantages

- Easy alignment thanks to the visible laser beam
- Rugged aluminum housing suitable for harsh industry environment
- Maintenance free
- Accuracy +/- 1mm



Pic 2: 4 Dimetix FLS-C laser sensors monitor the exterior walls of the tower.

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