



Landesgewerbeanstalt Bayern

Security in the sign of the Nuremberg Wall



The Nuremberg city wall is getting a bit long in the tooth and loses more and more stability. Among other things that is due to the fact that the building constructed in the 14th century for the most part consists of sandstone. To add to stresses and strains, e.g. vibrations of heavy load and tramway traffic - nobody thought about that in the 14th century. So it happens that

suddenly off-sets of several cm can be found. In some places have been prominent cracks noticed.



To make sure that the people who like it to be in adjacency are out of danger, LGA in co-operation with Civil Engineering Office get the

most important places of the wall online 24 h a day monitored. For this purpose a total of 52 displacement sensors get inserted into the wall, to register least displacements. The signals get recorded with the data logger IDL 101, which continuous the actual values with the set points compared and the data via modem to the PCs of LGA and Civil Engineering Office transmit. At exceeding of the limit values an alarm will be activated at the monitoring system and a SMS automatically will be transmitted to the mobile phones of the Civil Engineering Office.



