

Monitoring of the tram track above the newly built metro station (C21)

Warsaw, Poland

It is with great pleasure that we present to you our next project in Warsaw. This time located in Brdno - above the newly built C21 station of the Warsaw Metro.



The project

Our company was responsible for the precise monitoring of vertical displacement using a precise hystrostatic leveling system (HLS). We were commissioned by KellerPolska and General Contractor Gulermak to install dozens of sensors, allowing us to monitor concrete slabs that are part of the construction of two active tramway tracks. Our system supervises the entire high-pressure injection process, for which KellerPolska engineers were responsible.

The challenge

The complete system was installed and configured in just a few days. The installation was carried out during nightly maintenance (Engineering Hours) from 0:00 to 3:30, which required us to work at an extraordinary pace and coordinate well with maintenance services.

The solution

The system operates in automatic mode 24/7, recording data in real time and then transmitting it to the advanced QuickView monitoring platform. Configured in this way, the system allows work to be carried out safely and responsibly without disrupting heavy passenger traffic.

Project facts

Owner(s)

Gülermak Ağır Sanayi İnşaat ve Taahhüt

Keller business unit(s)

GEO-Instruments Polska

Main contractor(s)

Keller Polska

Engineer(s)

Tomasz Ziętkowski - Monitoring Project Manager
Grzegorz Dziedzic - Monitoring Engineer
Mateusz Orsicz - Software Specialist
Patryk Harlender - Monitoring Specialist
Paweł Faryna - Physical worker, Foreman, Welder

Services

Deformation monitoring

Markets

Rail

Technologies

Hydrostatic levelling cells
Wireless sensors