


Development of the user interface, programming of the PLC, integration of both servo motors and configuration of the fieldbus, was all done by the Trodat engineers using Automation Studio.

“The design has proven itself to be so effective that we are already building a second system”, explains Dr. Norbert Almhofer enthusiastically. 

Boryspil Airport



The Trodat Group in numbers (2004):

Employees worldwide: 727

Revenue: €91.6 million

Export quota: 98%

Export share: 62% Europe, 16% Eastern Europe, 9% North America

Market Position: Europe's largest manufacturer of stamping and marking products

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Who hasn't experienced it: Your own flight is running late and your connecting flight is already taking off. Or your flight is delayed due to bad weather. When this happens, you have more than enough time to enjoy the atmosphere of the airport – checking out what there is to eat or drink in the restaurants, cafés, and bars, or just browsing around the various shops.

The Boryspil airport in Ukraine's capital city Kiev was built in the 1960s. After the country's independence, the airport developed from a regional airport to an international airport. Today, the airport handles more than 200 flights from over 40 countries. The increase in both air traffic as well as the needs of international guests required the complete modernization of the airport's infrastructure. This included the renovation of the climate control systems, the construction of new terminals and an airport hotel, and the enlargement of the flight runways.

During the course of the renovations, heavy emphasis was placed on the climate control systems (heating, cooling, and ventilation), supplying water throughout the entire airport complex, and nearby infrastructure

Ukraine's Gate to the World



such as the hotel. The airport temperature and humidity should always be at pleasant levels, regardless of the actual outside temperature or weather conditions.

Because achieving maximum savings in primary energy consumption was an additional goal, it was important that the boiler and pumps were optimally configured and that all data could be recorded.

B&R controls the technological infrastructure

The entire system is controlled by several PLC systems and Power Panel devices from B&R. The dispatch system is connected to the controllers and Power Panels over Ethernet and is used for microcontrol, visualization, the alarm system, and data archiving. Data recorded via the control systems includes water pressure, water usage, primary energy consumption (gas), electrical energy usage, and temperature. Remote I/O systems collect all data at various locations in the different buildings and direct it to the central controllers over a CAN network.

“For us, it was the functionality and the optimal cost-value ratio that was important when upgrading our technological

infrastructure”, said Valentina Andriyach, chief engineer at the airport. “That’s why we decided to use controllers from B&R and their engineering partner, Skif Control. The results show that our decision was absolutely correct and that the B&R systems were the best equipped to meet our demands.

In the next few years, Boryspil will act as a central hub for Eastern Europe with hun-

dreds of flights and thousands of passengers daily. If you ever land at Boryspil, you will be positively surprised at the modern infrastructure, pleasant atmosphere, and regulated climate – all of this brought to you by the controller systems from B&R.” 