

DEOS AG Case Study

LOHMÖLLER

Freight forwarder Lohmöller saves money in office

Building 25 % heating costs with the TEO wireless thermostat

LSL Lohmöller Spedition & Logistik GmbH is a real veteran and an integral part of the Münsterland corporate panorama. Since its foundation in 1930, the company has established itself as a permanent fixture. With its own fleet of 3.5-ton, 7.5-ton, 12-ton, bridge, semi-trailer and silo vehicles that transport general cargo, part and full loads throughout Europe, their presence on the roads is unmistakable. A team of around 220 dedicated employees spread across all locations holds the strings in his hands.



The forwarding company's administration building in Rheine was built in the 1990s and has three floors. This is where individual and open-plan offices as well as meeting and social rooms are located. The owner family identified the energy consumption of the main building as a relevant cost block and was looking for a savings measure that could be implemented quickly.

"After a strenuous week at work, our employees also like to go into the weekend and then forget to turn down the hot bodies, which caused the building to be heated unnecessarily over the weekend," reports Lukas Lohmöller, member of the management board, with a lot of understanding. There must be an easier way, thought Lukas Lohmöller and was looking for a simple energy-saving solution that does not require any work on the infrastructure (such as cable laying) and is installed during the building's use. During his search, he came across DEOS TEO – the battery-free wireless radiator thermostat.

"No work on the existing infrastructure and you can save heating costs immediately – with DEOS TEO wireless

The outdated analogue hand thermostats on the radiators in all offices were quickly replaced by 60 smart wireless radiator thermostats. The installation went smoothly and took only one day, as no cables had to be laid. Wireless room sensors were also installed to record the actual temperature.

Thanks to the radio protocol (LoRaWAN) and its excellent penetration capability of walls and ceilings, the entire installation managed with two wireless gateways for the entire main building, which reduces network costs and this simplicity means that the susceptibility to interference is low.



Lukas Lohmöller,
Member of the
Management Board of
Spedition LSL Lohmöller

Now DEOS TEO automatically regulates the temperature in the offices according to the time/calendar program. At night and on weekends, the heating is turned down to further save energy. Just in time for Monday morning, rooms warm up again: office-specific, says Lohmöller, as the employees in the service office start working much earlier than the administrative office staff.

Lukas Lohmöller is enthusiastic. *"With this solution, we have been able to demonstrably save 25% on heating costs. Through temperature monitoring, we also found that our heating was not optimally regulated after summer operation. A problem that we only became aware of with the DEOS TEO solution and monitoring."*

DEOS TEO: a piece of the puzzle to meet ESG criteria

ESG, short for "Environmental Social Governance", encompasses the consideration of environmental, social and corporate governance aspects. Clients of Lohmöller are already paying attention to how sustainable their freight forwarding service provider is and how it deals with the issue of energy. *"For us, the DEOS TEO solution once again contributes to meeting our ESG criteria. With this energy-saving solution, we are demonstrating concrete long-term successes as well as our careful use of resources,"* emphasizes Lukas Lohmöller.

The uncomplicated and quickly implemented installation with DEOS TEO has paid off immediately for the freight forwarder, with an estimated return on investment (ROI) of about 2 years. Three important points in the profitability analysis are:

- wireless installation,
- the "conversion in operation" vs. room closure by installation work as well as
- the low operating costs due to the lack of batteries.

Tamper-free temperature settings

DEOS TEO was developed to conveniently adjust room temperature settings remotely via the PC / tablet. For example, settings on the calendar/time program can be easily adjusted and energy savings can be displayed graphically in the dashboard.

The future TEO expansion is already planned

After the initial months of operation and the lessons learned, there is a desire among employees to adjust the room temperature slightly. For this purpose, DEOS offers radio-based room control units. In this way, the users of the building have the opportunity to adjust the heating temperature of the DEOS TEO, for example by +3°C. The haulage company is also planning to use LoRaWAN window contacts to save even more energy. These detect when windows are open and automatically lower the heating temperature, resulting in potential energy savings of up to 40%.

The DEOS difference: personal support in the project

Another highlight and the DEOS difference is the personal support in the project. *"As an end customer, it is not a matter of course that we get direct contact with the manufacturer. The support of a DEOS employee was always quick and personal,"* emphasizes Lohmöller.

This individual support by experts has distinguished DEOS AG from Rheine for over 55 years.

Technology at a glance

- **Funk-Thermostate**
60 x DEOS TEO battery-free wireless radiator thermostats and 2 x LoRaWAN gateways
- **IoT/Cloud Platform**
DEOS pro. Building Suite for remote adjustment and operation as well as visualization of energy savings through DEOS TEO

Would you like detailed information?

Your DEOS expert for deeper interest in the reference and DEOS TEO solutions:

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