
TELEM d.o.o.

ENGINEERING, AUTOMATION, REPRESENTATIVE

(Established 06.04.1992)

REFERENCES IN THE FIELD OF BUILDING AUTOMATION

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Registrations:

- Register of design firms [in the Slovenian Chamber of engineers \(Inženirski zbornici Slovenije - IZS\)](#) with ID **0414**
- Registered at [Slovenian Research Agency](#) with ID **2325**,
- [Technology Network - Process Control Technology \(TVP\)](#)



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2. BUILDING AUTOMATION

In the field of building automation, our company boasts references in control and management of lighting, temperature and humidity control, regulation of heating and air-conditioning, automation of heating stations and sub-stations and boiler rooms. Our services include technical solutions, designing, installation of control and management systems, including telemetry, functional testing and setting-up of process systems in office buildings, shopping malls, residential buildings and industry.

The solutions are based on SCADA (Supervisory Control And Data Acquisition) platform, which is adapted for the end-user. SCADA process control, visualization and regulation is both functional and user-friendly, which reduces end-user training time and does not require any prior knowledge or experience. The system enables maximum use of system and optimization of energy consumption. The contemporary SCADA systems are based on advanced technologies and IT standards that provide a long-term solution for any investor.

Building automation offers a series of solutions for intelligent buildings or smart homes, whereby the end-goal strives towards comfort and energy efficiency.

Nowadays, the efficient use of energy presents one of the most important aspects of lowering and optimization of costs and reducing impact on our environment. For these ends our solutions include:

- **energy consumption analysis** - helps our customers understand their energy consumption according to basic indicators (water, air, electricity, steam, gas etc.),
- **regulation and control of pumps and fans** - use of frequency drives instead of soft starters or D-Y starters (significantly lowering the consumption of energy),
- **regulation of air-conditioning, heating and ventilation** - heating, air-conditioning and ventilation systems with an intelligent controller automatically optimize the functioning of installations and machinery with the aim to improve control over temperature, ventilation, humidity and CO² (optimization),
- **regulation of specific spaces and environments** - improves not only the comfort of persons living or working in these spaces but also optimizes and lowers costs (temperature, lighting etc.),
- **regulation of lighting, including external blinds** - enables reduction of energy consumption, while maintaining safety (public infrastructure) and optimizing consumption of buildings and houses.

Many of the above mentioned solutions in the field of monitoring and efficient use of energy are implemented also in industry and shopping malls.

In 2004 we began the construction our of new office building in the area of approx. 750 m². The biggest challenge presented itself in the choice of heating and air-conditioning, which led us to choosing geothermal energy. We took advantage of our rich knowledge and experiences in the

field of and installed a modern, optimal heating and air-conditioning system. You can find more information about this on our [webpage](#).

3. REFERENCES IN THE FIELD OF BUILDING AUTOMATION

3.1 IMPLEMENTATION

1.	President palace Ak Orda – lighting control President palace., Astana, Kazakhstan (2005)
2.	Control of temperatures and door openness of fridges Farmadent d.o.o., Maribor (2007)
3.	Control and regulation of heating Farmadent d.o.o., Maribor (2007)
4.	Commercial building – lighting control Marchiol d.o.o., Nova Gorica (2007)
5.	Shopping Mall Super mesto – lighting control Mercator d.o.o., Ptuj (2008)
6.	Control of climates in the system area – Cooling and temperature control KRS Rotovž d.d., Maribor (2009)
7.	Temperature control in Dentes facility Farmadent d.o.o., Maribor (2009)

8.	Shopping centre Qlandia – ventilation application Qlandia Novo mesto, Novo mesto (2010)
9.	HVAC control and supervision - Odprema facility– air conditioning Farmadent d.o.o., Maribor (2010)
10.	Retirement home– building automation Dom pod gorco d.o.o., Maribor (2011)
11.	Automation of five HVAC unit Ljubljanske mlekarne Obrat Maribor (2011)
12.	Automation of four HVAC unit Ljubljanske mlekarne Obrat Ljubljana (2011)
13.	Additional cooling - Odprema facility – air conditioning Farmadent d.o.o., Maribor (2013)
14.	Temperature and humidity control in Hygia facility Farmadent d.o.o., Novo mesto (2013)
15.	Dornava cultural hall – building automation Občina Dornava, Dornava (2014)

16.	Zerex Commercial building – building automation Zerex d.o.o., Ptuj (2015)
17.	Installation of heat pumps in existing heating system complex Brežice Hospital – heating application SB Brežice, Brežice Public health institution (2015)
18.	Temperature and humidity control in Hygia facility –improvement Farmadent d.o.o., Novo mesto (2017)
19.	Reconstruction of HVAC unit Ljubljanske mlekarne Obrat Ljubljana (2017)
20.	HVAC control, supervision and alarms Ljubljanske mlekarne Obrat Ljubljana (2017)
21.	HVAC control unit replacement Telemach d.o.o., Ljubljana (2017)
22.	Production facility cooling regulation Mark Metal , proizvodnja in trgovina, d.o.o, Ptuj (2018)

23.	<p>Production facility automation of the industrial recuperator for heating the hall H3</p> <p>Mark Metal , proizvodnja in trgovina, d.o.o, Ptuj (2018)</p>
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3.2 PROJECT DOCUMENTATION

1.	Detached house JUBHome 01 – building automation JUBHome d.o.o., Dol pri Ljubljani (2015)
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