logimic
Software systems

iLersen Central Heating - industrial automation system

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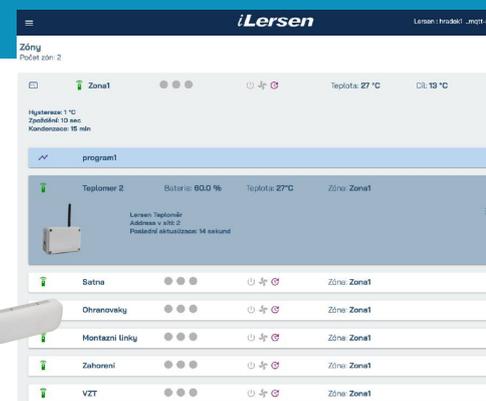
1
modular control system

up to 50
industrial heaters per zone

∞
unlimited number of zones

The Idea

The main goal of **Logimic** in this project was to develop, in cooperation with **Lersen CZ,** a highly innovative, intelligent **control system** for wireless control of Lersen **industrial heaters**. The system extends the customer portfolio with a modern and efficient IoT component based on a modular software solution that can work intelligently with IoT devices.

The Solution

The system monitors and controls the heating of industrial halls based on **temperature profiles**, **indoor / outdoor temperature**, **working hours**, etc. Each hall is fitted with an **IoT Gateway** (Aurora Hub IoT), divided into zones with one wireless **temperature sensor** and a set of wirelessly controlled **heaters** located on the ceiling of the hall. Data is stored in the **AWS** cloud.

The Results

Thanks to continuous analysis, recommendations, and alerts, the client gains valuable inputs to **optimize heating** and **reduce costs**. He can set the start and end of the heating so workers arrive in an **optimally heated hall**. The system is designed for industrial automation of devices such as **lights**, **heaters**, **conveyors**, manufacturing **machines**, **robots**, etc.

The IQRF Benefits

The IQRF network is used to transmit sensor data and heater commands. In general, there can be **more** than **200** devices in a single network, the signal can pass to the **furthest places** of the hall thanks to the MESH topology, and the wireless solution greatly **reduces** the **costs of wiring**. Additional **sensors** and **actuators** can be **added** to the network - e.g. air-quality sensors.

IQRF® Alliance

DO IT WIRELESS!