energyControl on Microsoft Azure

Self-Learning Control for your HVAC System

You can reduce the energy consumption of your heating, ventilation and air conditioning by more than 20%, and thereby simultaneously reduce your CO_2 emissions - fully automated with energyControl. Through Machine Learning procedures, energyControl learns the building's behavior with its respective climatic conditions, even considering varying occupancy due to opening times or tenancy. After the initial learning period, a predictive control strategy for the HVAC system is tailored precisely to the building's requirements and your specifications. For a better room climate at less energy consumption.

Maximum climate comfort - minimum energy consumption

Intelligent forecasts provide as much heating, cooling and air ventilation as an optimal room climate requires, with as little energy use as possible.

24 hours a day, 7 days a week. Updates every 15 minutes.

All factors influencing the energy consumption are taken into consideration, such as weather, occupancy data or times of use. As flexible as the varying situations itself, energyControl keeps the room climate stable within your individual target range. The outcome? Happy customers and employees.

Simple add-on solution in 2 steps

Predictive energy optimization is based on ongoing operational data, weather and occupancy forecasts. The Recogizer ControlBox is connected to the building technology to monitor the operating and consumption data, and then predicts the exact energy requirements of the building or individual climate zones respectively.

Retail

Office Buildings
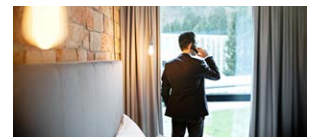
Hotels

Schools & Universities

energyControl at a glance

- ✔ Predictive control of air-conditioning systems
- ✔ Forecast-based, adaptive optimization strategy
- ✔ Compliance with defined framework conditions
  - ▪ Air quality
  - ▪ Room temperature bands
- ✔ Overview of system status, consumption and savings can be viewed at any time in the energyPortal
- ✔ Inclusion of building-specific data streams, e.g. location, weather forecasts, occupancy forecasts, usage times
- ✔ Fully automated

Technical requirements:

- ▪ Building automation (DDCs/GLT)
- ▪ Energy meter data from air-conditioning systems

Standard interfaces, e.g:

- ▪ BACnet/IP
- ▪ Modbus TCP
- ▪ Ether S-Bus
- ▪ OPC-UA

Microsoft Azure   Microsoft Partner

Optimized control 24/7, updates every 15 minutes

20% less energy, 100% more comfort.

Fully automated

Short payback time

Adapts specifically to your building

energyControl

Smart, Green Buildings Through the Power of AI

Your Benefits

>20%
Save > 20% energy

Save more than 20% energy on your HVAC system with energyControl - fully automated.

Comfortable climate

A pleasant room climate according to your requirements ensures higher employee and customer satisfaction.

Fast amortisation

The investment pays off quickly thanks to low setup costs and quick start-up.

Reduce CO_2 emissions

An easily implementable measure for your company's sustainability initiatives.

About Us

Recogizer Analytics is a pioneer in AI-powered Predictive Control applications to increase the performance of technical systems and develop new, innovative business models. By utilizing machine learning methods and the domain knowledge of engineers, we can operate sophisticated, fully automated models for the optimized control of machines, processes and technical assets. All applications are based on our robust, highly available IoT Analytics platform.

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