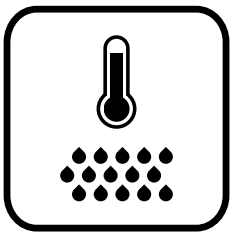
INFORMATION ABOUT THE ENERGY CONSUMPTION | MONITORING CLIMATIC DATA | ENVIRONMENTAL FOOT PRINT | PREVENTION OF DAMAGE TO BUILDINGS AND GOODS | ALARM FUNCTIONS | SAFE DATA TRANSMISSION

Application sheet

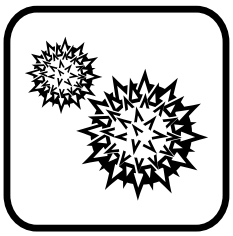
Application of Microtronics in building surveillance systems

Regular information about energy consumption

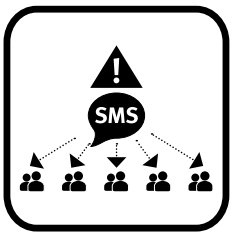


Monitoring & documentation of climatic data

Verification of the environmental foot print



Prevention of damage to buildings and goods



Alarm functions

Safe data transmission

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Requirements

- Verification of the energy efficiency of buildings
- Determination of the CO_2 consumption for the environmental foot print
- Monitoring and documentation of the internal and external temperature
- Monitoring and documentation of the air humidity
- Overview of the data on a central web interface
- Monitoring of the energy supply

Functional description

The main aim of the building surveillance system is to be able to guarantee the effective energy consumption within a building. The continuous measurement and documentation of the energy consumption, temperature and air humidity can, for example, be used to determine how to reduce heating costs or whether moisture-sensitive goods can still be stored safely. When it comes to sustainability, the environmental foot print of a building can be determined by ascertaining the CO_2 consumption. The analysis of the measurement data also provides the opportunity to prevent damage: This, for example, means that the responsible building technician can be informed immediately if temperature values are not reached or are exceeded, or if there is a risk of energy levels dropping. With the technology from Microtronics, the collected data is transferred to a central server via GPRS. The real-time data can then be accessed at any time and from any location.

Key functions

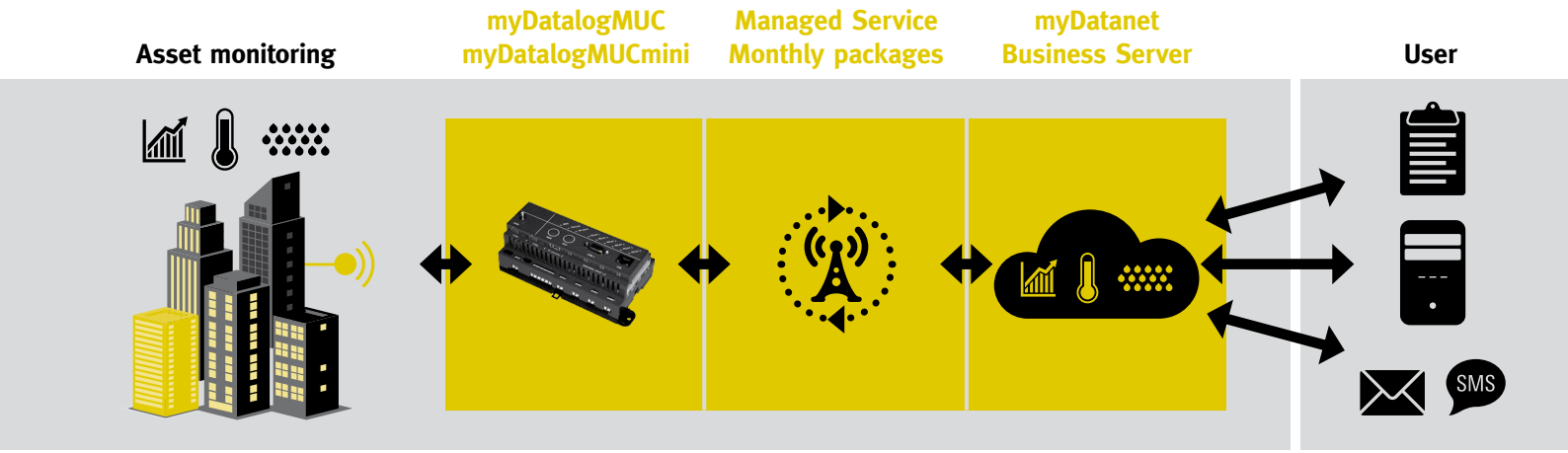
- Regular information regarding the energy consumption
- Monitoring & documentation of the climatic data
- Evidence of the environmental foot print
- Prevention of damage to buildings and goods
- Alarm functions
- Safe data transmission

With the technology from Microtronics,
the collected data is transferred to a central server via GPRS.

Fields of application

- Public buildings
- Offices
- Historic archives & libraries
- Warehouses for moisture- and temperature-sensitive goods
- Restaurants & hotels

Components



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