

unlimited access to your data

Intelligent Facility Management

Background

With myDatanel Microtronics Engineering GmbH has developed an innovative wireless measurement acquisition system which is suitable for a wide range of applications. Due to wireless measuring instruments and data transfer via GPRS the collected data is available via the internet in real time at any time.



Problem

By the facility of Microtronics Engineering GmbH some possible applications for this innovative monitoring system are illustrated. Via the internet all information about energy consumption, temperature and humidity are available 24 hours. As development and production facility for sensible electronic device it is of utmost importance that the temperature in stock, rooms for techniques and server do not exceed certain limits and that the UPS (uninterrupted power supply) functions properly.

Solution

In it's development and production facility Microtronics is monitoring temperature in the server room, techniques room, stock as well as the temperature outside. The consumption of long-distance-heating and electrical power are registered in kWh. Due to calculating channels this information is available also in EUROS. The proper function of the UPS and the general power supply is controlled. In case of failure an alert is sent via SMS and e-mail.

In addition to the facility management Microtronics is also acquiring data of a weather station (precipitation, wind, air pressure) and monitors the humidity in the production facility.

All information is available in freely configurable intervals via internet. Especially impressive is the velocity of this system. At a measurement interval of 2 minutes data of one year (more than 2 millions of data) can be displayed as graph or table in only a few seconds.

Measuring Points

For the facility management the devices myDatalog8, myDatalogMINIwv and myDatalogrH have been used.

Operating signals as device temperature and GSM field strength are also registered. Due to the integrated system alert e-mails and SMS are sent in case of device failure. So the safety is assured to be informed of failure of any device around the clock.

