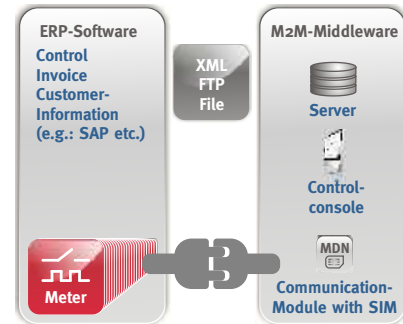


unlimited access to your data

Intelligent Smart Metering

Background

With myDatanet 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

Meters of different manufacturers and types should be integrated cost-effective in a central, automatic meter management. Meters for electrical power, long-distance-heating, heat pumps, photovoltaic etc. should be read. Also their function should be monitored. The consumption should be shown in kWh and EURO 24 hours via the internet. The control of provider applications via access to the smart meter over the internet should also be possible.

Solution

For the automatic reading of meters an intelligent communication module from myDatanet is used. The meter is directly connected to the module which is due to its low space requirements, rapid mounting and the easy start-up suitable for several applications. The reading of the meter is done automatically via GPRS. The data are sent to the MDN server in previously configured intervals, which make them available for authorised people at any time. Also the configuration and monitoring of the measuring points via the internet is possible. The export of the data in ERP-systems (SML, FTP, TSV, ODBC ...) is done automatically.



Measuring Points

According to requirements for this application myDatalogMINI or myDatalogEASY are used. They are protected by a synthetic or aluminium housing. The energy optimised devices can be operated by battery up to 10 years. If there is no power supply at the measuring point, battery lifetime can be accorded to the calibration interval - e.g. for gas and tap water meter.

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.

