

MESMETone



E-Smart Systems

Automatic remote electricity meter reading became a technical and business standard world-wide. E-Smart Systems d.o.o. Company, recognizing the advantages of introducing such a technologically modern concept to our region, in 2006 initiated the process of developing a software solution called MESMET. The system is developed to suit needs for remote reading of electricity meters and supports DLMS and IEC 62056-21 standards, with possibility to adjust it easily for remote reading of consumption meters for natural gas, water, heating, etc.

MESMET System Applications:	
MESMET One	automatic meter reading (AMR)
MESMET One Click	parameter identification for the electricity meter, manual remote reading
MESMET One Pocket PC	reading via PocketPC device
MESMET One Reporting	table and graphical overview of data read by MESMET One system

Using the system for remote meter reading allows significant savings. The savings are directly reflected in reduced expenditures related to meter reading, while they are indirectly reflected in the reduction of deficits. MESMET system provides precise control over the meters network and timely discovery of irregularities in the field.

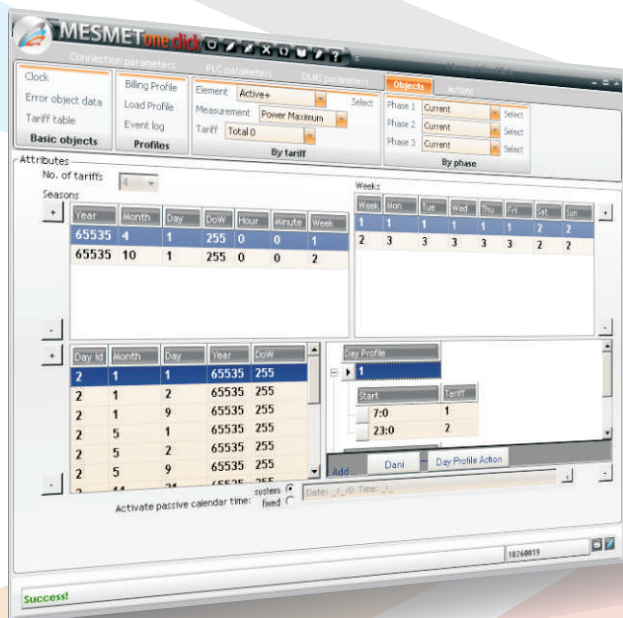
Data received by remote meter reading can be used in different analytical processes that ensure better planning of distribution and consumption of resources measured, decrease of expenditures, analyzing the network condition, control over electricity power etc.

MESMET One is an economic solution appropriate for pilot projects for remote meter readings. It is particularly suitable for business customers, which desire to control, plan and optimize the consumption, and finally, to reduce expenses.

Mesmet OneClick

Mesmet OneClick is an application intended for direct communication with electricity meters which support DLMS standard. The application is developed for electricity meters of Mikroelektronika Company and its basic function is assigning parameters to electricity meters. In addition to registering the meter and tariff table into DLMS categories, resetting the maximum power and safety switches, **Mesmet OneClick** is also used for the direct meters reading. The reading of all calculating values is being supported, as well as network quality data according to phases (current and voltage, frequency, cos f, supply frequency), status of control values (checks, condition of the cover), load and billing profile and an event log.

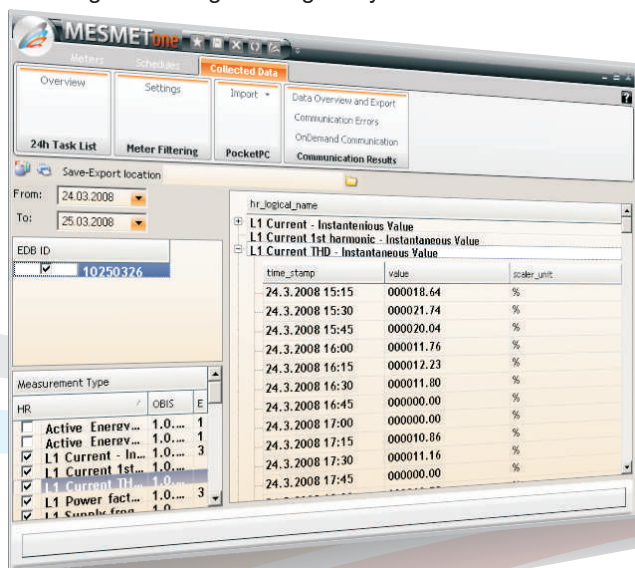
Supported modes of the **Mesmet OneClick's** communication with electricity meters are: via serial connection, GSM/GPRS modems, via PLC connection or through ZigBee module.



Mesmet OneClick application is user-friendly and does not require comprehensive knowledge related to the DLMS standard.

Mesmet One

MESMET One is the application for **automatic remote meter reading (AMR)** in the network segments with small capacity (up to 2000 meters). **MESMET One** represents an economically efficient solution, offering the best balance between the price and the quality, especially suitable for the remote meter reading pilot projects. It is characterized by off-hand and quick implementation: it is possible to implement the system within four working days, including the training for using the system.



Within the **Mesmet One** application, meters in the system can be read via GSM/GPRS modem, PLC connection, ZigBee communicator or via RS232/RS485 port. Data are collected in accordance with the schedules on a daily or monthly basis defined by user, or by using a direct command (OnDemand). A system of mandatory and non-mandatory organizational divisions can be used to group the meters in accordance to the user's needs, and, subsequently, based on group belonging, reading is assigned.

Application **MESMET one** stores the read data into the SQLExpress database and enables general overview of the available data. If further processing is needed, the data can be exported from database into Excel or Xml format. If **MESMET One** represents an independent unit, application **MESMET One Reporting** enables basic function of reporting on collected data.

E-Smart Systems d.o.o., in addition to this software solution for meter reading has developed solutions for medium and high capacity networks' segments – MESMET XT. There is a possibility for system **MESMET One** to be further upgraded, without any data loss on solutions of higher capacity.

Mesmet One PocketPC

Mesmet One PocketPC is an application intended for communication with electricity meters via PocketPC device. Communication is carried out using a serial connection – by optical probe device.



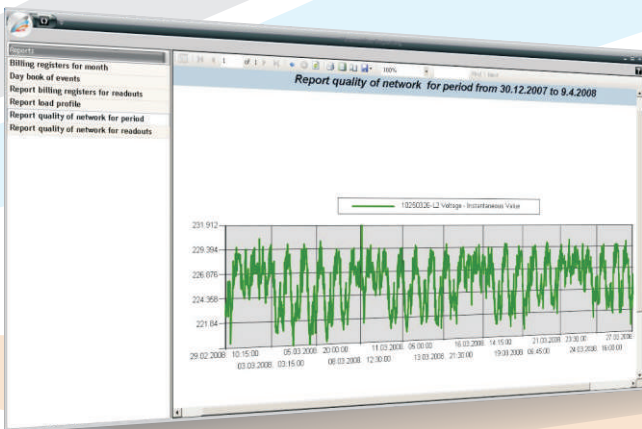
Application **Mesmet One PocketPC** enables reading of all accounting values, data on network quality phase by phase, status of control values, load and billing profile, and an event log. Besides reading, the application provides possibility to assign values to the meter, tariff tables, and resetting the maximum registered power and safety switches.

All data received through communication with meters are recorded into the local "log file" of the PocketPC device. From within local "log file", data can be imported, through transformation into Xml format, to SQLExpress database of the Mesmet One application, and can be further processed, like the data automatically read from the meter.

Application **Mesmet One PocketPC** is similar to **Mesmet OneClick** application, simple to use and does not require comprehensive knowledge on DLMS standards.

Mesmet One Reporting

Mesmet One Reporting application enables data processing, table and graphic overview of data from Mesmet One system's database. The reports generated by this application provide needed information in regards to network quality, load profile, event log and billing registries. These data are being systematized and presented in a suitable manner (graphically and in a table), providing the best and simple overview to the user. There is a possibility of assigning different criteria, when it comes to the report generating itself, depending on the preference of items to be presented.



A group of reports enabled by **Mesmet One Reporting** is defined in agreement with the users and in accordance to their needs. As other Mesmet system applications, this one too can be qualified as user-friendly.

E-Smart Systems d.o.o.

Since its establishment in 2000, the E-Smart Systems d.o.o. company gained its place among leaders in the region in the field of implementing new information technologies.

Team work coupled by the members expertise (over 80% of employed staff members hold advanced degrees), specialised knowledge, experience, positive energy and enthusiasm, are virtues that secure highest quality, reliability, pleasure and possibility for further business development to E-Smart Systems and to clients.

E-Smart Systems company deals with development, design, consulting, education, production, installation and implementation of IT solutions. In addition to creating new products and services, quality and performance of the existing ones are being constantly improved.

Large number of clients can be categorized into several groups: Corporations and companies in financial sector (banks, insurance companies, stock brokers agencies, stock exchange..), state institutions and agencies, telecommunication companies, energy companies, health institutions, pharmaceutical companies, production companies, and individual users.

Strategic partnerships and cooperation with the world known leaders in the IT field, with monitoring IT trends, give us possibility of fulfilling the clients' business needs.

Product development and implementation relies on the cutting edge Microsoft technologies. E-Smart Systems' partnership with the Microsoft company is reflected by status with „Microsoft Gold Certified Partner“ and with „Large Account Reseller“.

In addition to the cooperation with Microsoft, partnerships are developed with other companies - world leaders in their field of work: Gemalto (Smart Card technology), MicroWorld (anti-virus software), SafeNet (Hardware security moduls), SUPERMICRO (server platform), Meridio (electronic document management and archiving) and others.



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