ComBox.M is an innovative solution for today’s energy management market. It incorporates an energy data concentrator with data logging functionalities for supervision and control solutions. Its main applications are the Energy management information systems, Smart metering, and Smart grid systems.

- Modular design
- Versatile communication channels
- Remote data acquisition and data logging
- Cost effective and simple installation

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SUPERIOR POWER AND FLEXIBILITY
Various communication technologies and software support are available to collect, store and transmit data from various meters and measuring instruments. Unlimited flexibility is provided by the built-in Ethernet IEEE 802.3i interface, a number of serial interfaces (RS-232, RS-485) as well as GSM. All this is providing the functionality required by the user application.

MODULAR DESIGN
The main energy management module can be expanded upon by adding a number of additional modules for different types of communication (RS-232, RS-485, GSM, Seneca, etc.), each of which support different protocols used in energy meters.

CONNECTIVITY
IP based protocols over Ethernet and GSM are used to connect with energy management software. The device has built-in data loggers which make sure that all relevant data is stored and transmitted securely. Modbus-TCP can be used to connect a device to a SCADA process automation system.

RELIABILITY
Quality components, good fabrication, appropriate housings as well as acquired certificates are a guarantee of highly reliable performance. The devices are constructed to enable simple installation on DIN rail. Connecting signals and power supplies, as well as the installation of the devices on the spot, are simple and fast.

DISPLAY
Portable LCD, with a connection to ComBox.M, is used for displaying key information such as: identification, date/time, system info, network connection status (GSM/ETH), status of server, module and LynxBus status. It can also be used for diagnostics and connectivity. LCD is adjustable for which data is displayed.

LYNXBUS
LynxBus is a proprietary robust protocol with asynchronous full-duplex communication. Key features are simultaneous push and pull mode, automatic and manual initialization, automatic addressing, optional direct communication between devices, service mode, and transparent mode between the module and device. LynxBus supports data rate up to 3,6 Mb/s, the maximum number of modules is 10.

GSM
GSM is used for wireless communication. Communication can go through ComBox.M–internal Bus or via an external serial port. Data rate speed is up to 3,6 Mb/s. GSM can be powered through ComBox.M–internal bus or from an external power source. The module can be used as a stand alone modem.