



MCom 4

The system for improved efficiency in meter reading



Easy to use and powerful

MCom 4 has a user interface that makes it easy to filter, process, compare and analyse specific information from the database.

Different communication solutions

MCom 4 handles both radio and wired communication in one system. The SVM radio system provides an integrated solution for remote reading and management of hourly values. In addition to M-Bus, e.g. SIOX and LON-FTT10 can be used.

Monitoring, alarms and load profiles

MCom 4 has features to monitor many main and support processes. The alarm functions can be set individually for each meter in the system. By email or SMS, the person concerned can receive alarms, errors and events, which are also stored in the system logs.

MCom 4 also has features to monitor load profiles, which is an efficient way to reduce the costs in the distribution process. The industry can compare their actual consumption of energy and water with the expected profile and thereby receive an early warning for processes with an unusual pattern of consumption. After only a few occasions with identified high consumption, MCom 4 may have paid for itself.

An open system

MCom 4 reads the vast majority of meter makes and types including meters for cooling, electricity, water, gas and oil. It is easy to customise readings. The system supports a large number of export formats, e.g. Excel files, text files and XML. The most common database types are supported, e.g. MS Access, MS SQL Server and Oracle.

MCom 4 is compatible with Windows® 7 and previous operating system.



Kamstrup



Select MCom 4 and increase profitability!

Multiple users

With MCom 4, multiple users can work and access their information simultaneously. MCom 4 is installed on a central server with a central database. More workstations can be connected to the server via the network. Views and user data are customized according to user roles.

Views simplify the reading

MCom 4 offers different views. Different views let each user customise the system and read and monitor a defined group of meters. The topological view shows the network and how all meters are connected. In the group view, it is possible to create groups of meters without relation to their physical connection. The map view, MCom's own GIS system, shows geographical location of the meters on a map or drawing.

A secure system

User rights and access are managed by an access system. Windows or MCom login can be used to increase control and security. With the help of special logs, user history can be stored and tracked. Continuous and automatic

backup makes system information always available. Meter structures can be exported and imported between different systems.

Grow with the system - extend the functionality as required.

MCom 4 is a very flexible and easy upgradeable system. It is scalable from ten to tens of thousands of meters with high demands for robustness and system functionality.

Service and support

With the additional service MCom Meter Readings, we take care of both meter readings and the operation of the IT environment. In that way you can have your meter reading values delivered every month.

System support is easily obtained through our experienced service and support department in Sweden. We also conduct training courses, which can be tailored to meet all needs.

MCom 4 for Energy optimization – save money and the environment



Jönköping Energi optimises the entire district heating process with MCom 4. Today, two regular readings are performed daily, and some properties are even read on an hourly basis. Every day, the system calculates the probable consumption in terms of degree days and other parameters.

The computer calculates the meter setting during the night. On the basis of this information, the network can be made optimally efficient. By only using just as much heat as needed, significant costs are saved.

Jönköping Energi's own calculations show earnings of half a million SEK per year for each degree of temperature reduction in the return water.

For ten years, they have delivered district heating with nearly ten degree lower return temperature.

"It is quite obvious that the return of investment in MCom 4 is easy to calculate," says Thomas Samuelsson, who is responsible for meter data management.



Radio system for easier remote reading

Radio communication is a simple and cost-efficient way to collect values to the overall system MCom.

Kamstrup SVM offers two different types of radio systems where the customer owns the radio network and thus avoids subscription costs.

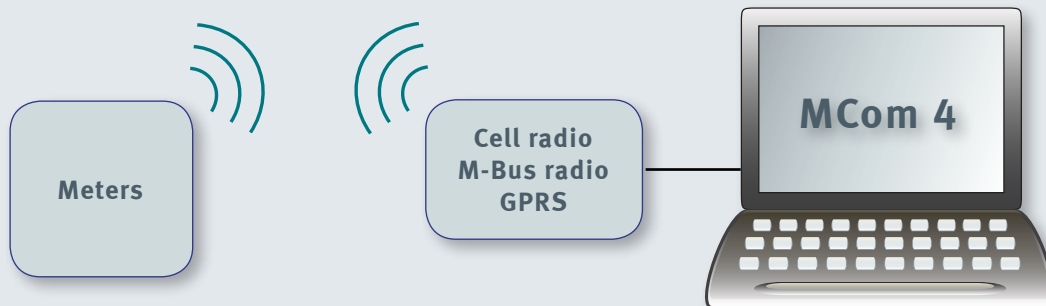
Both systems use M-Bus communication to the meters which provides great flexibility for the energy sector as most energy meters in the industry support this protocol.

The two radio systems are SVM Cell radio, also known as high-power radio, and SVM M-Bus radio, also known as low-power radio.

SVM Cell radio is a proven product on the market that has been used for several years by both electricity utilities and energy utilities with very good results. It is used where the distance is slightly longer and in more difficult environments such as properties, industries, or where the meter is located below ground level.

SVM M-Bus radio is best suited for short distances such as between terraced houses or between apartments in apartment buildings.

In addition, the mobile network with GSM and GPRS can be used to read values to MCom.



SVM Cell radio

- No subscription costs for communication to the meters since the customer owns the radio network.
- Long range with 500 mW/444 MHz.
- Licence-free, follows the PTS regulations.
- MCom supports configuration of CR185 terminals and collection of meter reading values.
- All CR185 terminals can, if required, act as repeaters, controlled via MCom.
- 60 days' hourly values, 1440 values, for each of the 10 registers in the CR185 terminals.
- 10 meters (M-Bus loads) per CR185 terminal and up to 250 with M-Bus interface.
- CR185 terminal replaces the modem to read a loop.
- Faster reading with new Multi-point CR210 and Repeater CR211.
- Service tool to enable customers to optimise their radio networks themselves by using a battery-powered radio device for field visits.



Heat utilities

Reduced costs and increased control

MCom 4 handles meter reading values in a safe and reliable manner. MCom 4 also offers the possibility of processing and analysing collected meter data in order to subsequently export them to and manage them in e.g. a billing system. The analysis result can be used to generate reports and form the basis of decision for tasks in the distribution net-

work. This increased control over the distribution processes provides significant opportunities for cost savings. The system's other features such as alarms and maps give the utility a simple and quick overview of the network status and thus the ability to quickly take appropriate action, when needed.

Real estate owners

Saving both money and the environment

As real estate owners, it is valuable to be able to offer customers the ability to affect their energy costs themselves. With MCom 4, energy costs can be distributed fairly between customers. This gives them incentives to save energy and thus generates significant cost savings and benefits the environment. With the ability to let the system expand as

needed, MCom 4 suits both large and small real estate owners - from a simple system with a few meters for the small housing association to an advanced system with thousands of meters for the large real estate manager. MCom 4 is also manufacturer independent, and real estate owners are thus free to choose meters from different suppliers.

Industry

Increased opportunities with an open and flexible system

In the industry, there is often a need to internally allocate costs between different accounts or departments and to monitor the consumption in different processes. MCom 4 solves this by being able to adapt the collection of meter reading data to specific processes.

With the help of load profiles, it is easy to compare the actual consumption with the expected consumption. Furthermore, MCom 4 is an open and manufacturer independent system that can handle different types of meters from different manufacturers, which generates important time and cost savings.