



Supplier of Control Instrumentation to the South African Electrical Industry

MC 740/UMC 740 - MULTIFUNCTION METER



USE

The MC 740 multifunction meter is used for monitoring and measuring electrical quantities of a three-phase electric-energy distribution system. The meter is provided with 32 program adjustable alarms, up to four inputs or outputs and communication. The meter can be set and measurements can be checked with the RS 232/RS 485 or Ethernet communication. The meter also functions as an electricity meter, with the additional function of cost management by tariffs. A tariff input or a tariff clock can be set. At tariff clock setting, four periods and four work groups as well as electric energy price for each period and a work group (16 different price periods) are available. Additionally, 20 places are available for setting holidays or days when special tariff rules are valid. As an electricity meter it records energy in all four quadrants in four tariffs.

Main features are:

- Measurement of instantaneous values of more than 130 quantities (U, I, P, Q, S, PF, PA, f, ϕ , MD, energy, energy price by tariffs, etc.).
- Accuracy class 0.5
- Measurement of 40 minimum and maximum values in different time periods
- 32 adjustable alarms
- Wide frequency range from 16 Hz to 400 Hz
- RS 232/RS 485 communication up to 115,200 bit/s or Ethernet communication
- MODBUS and DNP3 communication protocols
- MMC memory card for setting and upgrading the meter
- Up to 4 inputs or outputs (analogue outputs, pulse outputs, alarm outputs, tariff inputs, pulse input, analogue input, bistable alarm, digital input)
- Universal or AC power supply
- Graphic LCD 128 x 64 dots with illumination
- Automatic range of nominal current up to 5 A and nominal voltage up to 500 V
- Adjustable tariff clock, display of electric energy consumption in optional currency
- Multilingual support
- User-friendly PC MiQen software

3.12 U1X
2.92 U2X
3.43 U3X

P= 143.20
Q= 184.50

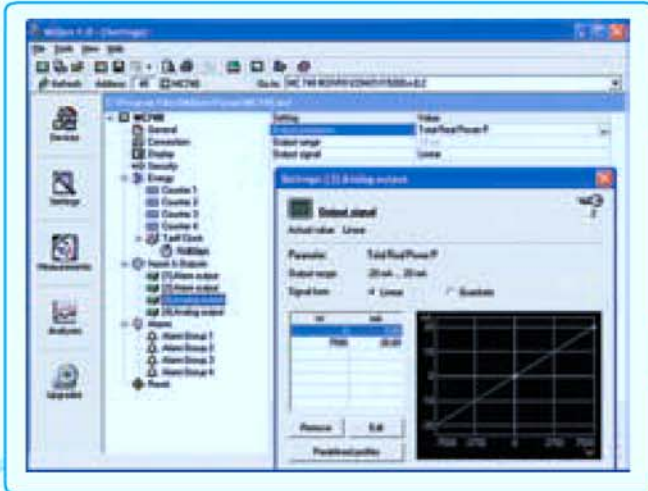
MMC card
MMC info
Save data
Save settings
Load settings
Software update
Main menu

1 3351.45
2 3282.73
3 15.23
4 6.44
5 21.01



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Handling the costs

A special meter function is cost evaluation of energy (active, reactive and total) by tariffs. The meter itself enables tracing the energy costs in optional currency. The meter calculates consumption in optional currency by means of the adjustable tariff clock and electric energy price.

Input / output modules

The modules are available with double inputs/outputs using a common connection contact (except a bistable alarm module - 1 output, 3 terminals). The meter is available without, with one or with two modules. The following modules are available:

- Alarm output 2 outputs
- Analogue output 2 x 20 mA outputs
- Pulse output 2 outputs
- Tariff input 2 inputs
- Bistable alarm output 1 output
- Pulse input
- Analogue Input
- Digital input