

# You can count on us

## EMU 10. MEMO Electronic Meter

The Meter for Energy Profiles

### ■ Description:

The electronic meter **EMU 10. MEMO** is designed to collect electric data, for household- and office systems. They are used to show the quality **and** quantity of the electric energy and power consumption, the whole of this data shows the energy profile of the electric devices measured.

The **EMU 10. MEMO** is the heart of the **EMU MEMO** metering system.

### ■ Description:

The **EMU 10. MEMO** is a single-phase electronic electricity meter of class 2 accuracy having a maximum current rating of 16 A. It measures **and** stores the following values:

– Real Voltage*	176	– 264	V
– Real Current*	0.010	– 16	A
– Active Energy	0.00	– 999	kWh
– Apparent Energy	0.00	– 999	kVAh
– Reactive Energy	0.00	– 999	kvarh
– Active Power*	0.000	– 4.22	kW
– Active Power Demand <sup>1)</sup>	0.00	– 4.22	max kW (M.D.)
– Apparent Power*	0.000	– 4.22	kVA
– Reactive Power*	0.000	– 4.22	kvar
– Power Factor*	c 0.02	– 1.00	
– Network Frequency* F	45.0	– 65.0	Hz

\* Momentary Values

<sup>1)</sup> M.D period programmable for 5, 10, 15, 30 and 60 minutes

### ■ Time Synchronisation:

The **EMU 10. MEMO** is equipped with a battery-supported real time clock. The synchronisation of electrical values (registers) of several **EMU 10. MEMO's** is achieved by programming the date and the hour of the start of the measuring period, together with the time interval between the reading of values (between 6 seconds and 99 days).

### ■ Data Storage:

The standard memory capacity is 256 kbytes in NVRAM (non-volatile memory) and guarantees storage of 7 electrical values measured every minute for up to 7 days. Each data package carries the exact time of its storage. Data storage is organised in daily files which are separately accessible.

On demand, a 128 or 512 kB memory capacity is available.

A separate register in circular mode stores the latest 9 interruptions of mains supply and records duration and timely occurrence.

### ■ Data Display:

In order to carry out discrete and impartial measurement investigation, the display of values can be faded out on the instrument by configuration.

### ■ EMU MEMO Metering System:

**EMU MEMO** is an open system and adapts to many criteria and varying applications. It is suitable for work on any type of AC network, it assures storage of all data during mains interruptions and it resists disturbances by harmonics and other unwelcome influences.

The **EMU MEMO** metering system is composed of the following elements:

- Electronic Meter **EMU 10. MEMO** with power plug or clamp-on type current transformer
- Bi-directional infra-red Interface for data transfer and configuration
- Configuration and transfer Software **EMUMEMW0**
- Notebook, laptop or office PC



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