CRN_ME162

Single Phase LCD 2 tariff Credit Meter

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The ME162 single-phase electronic meters are intended for electric energy measurement and registration in single-phase two-wire networks in household. The meter is approved and manufactured in compliance with the IEC 62052-11, IEC 62053-21 (IEC 61036) standards and ISO 9001. They are designed according to even more severe Iskraemeco's standards that are the result of our more than 50-year experiences of meter manufacturing and fifty million meters installed worldwide.

kWh	Active power
	Single or double direction
T(4)	Multi-rate registration
	Internal clock
LCD	Data display
	Impulse output (KWh)

- Internal clock
- Data display on LCD in voltage-free state (option)
- LCD backlight (option)
- Communication optical port for semi-automatic meter reading
- Smaller dimensions
- Energy measurement: one direction, double direction or absolute

FUNCTIONAL AND TECHNICAL DATA

ME162 *is a single-phase meter for residential and small commercial users, for revenue measuring of active power in two wire systems.*

Measuring and registration: Standard (as a mechanical meter).
Other options: – Double direction
– Always positive (absolute)

Accurracy/calibration: Due to the long-term stability there is no need for recalibration in meters life-time.

Indications: **LED 1** (red): kWh impulses (k=1000 imp/kWh)
Illuminated: meter is powered, no load current
Pulsating: load current is higher than starting value
Not illuminated: meter is not powered

Communication: **Opto-port** (IEC 62056 – 21): for local meter reading and programming.

Real time clock:
– 32 kHz quartz oscillator
– The real time clock generates: a tariff program, season changeover, transition to day light saving period and vice-versa.

Inputs – tariff: Two tariff inputs for 2-4 tariff energy registration.

Outputs: S0 (DIN 43864) or opto-MOS-relay.
Option: two separate S0 or optomos outputs for bi-directional energy flow direction (kWh-import, kWh- export).

Local metering data display (LCD):
– Automatic scroll mode
– Manual scroll (by button)Programmable data set and sequence
– LCD back-light (option)
– Data display on LCD in voltage-free state (option).

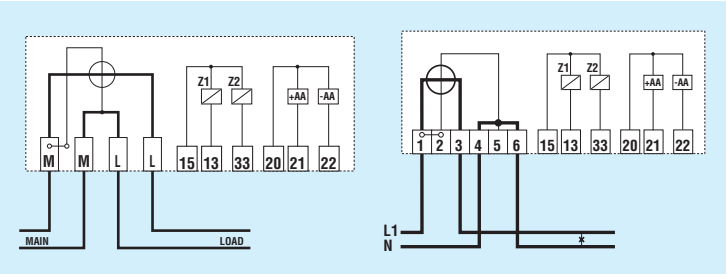
Scroll key:
– LCD test
– Scrolling data on LCD

Enclosure: Polycarbonate, self-extinguishable.

Protection against water and dust: IP 53.

Accuracy class	.2 or 1
Rated current I_n	.5, 10, 20 A
Max. current I_{max}	.85, 100 A
Min. current	.0,05 I_n
Starting current	.0,004 I_b
Reference voltage U_n	.120, 220, 230, 240 V
Voltage range	.0,8 U_n ... 1,15 U_n
Reference frequency	.50, 60 Hz
Meter constant	.1000 imp/kWh
Clock accuracy (25°C)	.≤ 6 ppm or ≤ ± 3 min/year
RTC control	.32 kHz crystal
Temperature range of operation	.-25°C ... +60°C
Extended temp. range	.-40°C ... +70°C
Storing temperature	.-40°C ... +85°C
Current circuit burden	.<25 mW / 25 mVA
Voltage circuit burden	.<0.8 W / 10 VA
Dielectric strength (burst test)	.4 kV, 50 Hz, 1 min
Impulse voltage	.6 kV, 1,2/50 µs
Short-circuit current	.30 I_{max}
EMC: High frequency disturbances	.6 kV (IEC 1000-4-4)
Optical port	.IEC62056-21 (IEC 61107)
Impulse outputs:	
S0	.ti = 40 ms (10 , 20, 30, ..., 160 ms)
opto-MOS	.ti = 80 ms (10 , 20, 30, ..., 160 ms)
Switching power	.25 VA (100 mA, 250 V)
Dimensions (h x w x d)	.97 x 130 x 43 mm
Mass	.Approx. 0.380 kg

CONNECTION DIAGRAMS



DIMENSIONS