



Stephen P. Wales Ltd

The Old Brewery Works, Lr Ellacombe Church Rd,
Torquay. UK. TQ1 1JH
Tel: 01803 295430 Fax: 01803 212819
email: sales@stephenpwales.co.uk







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.



CRN100DR_ME162 100amp 2-tariff single-phase meter

ME162 electronic kWh-meter is intended for electric energy measurement in single-phase two-wire multi-tariff networks.



	Active power
	Single or double direction
	Multi-rate registration
	Internal clock
	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)

Accuracy/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.

TYPE DESIGNATION FOR ORDERING

ME162-D1A41-V22G22-M3KO

M – Electronic meter

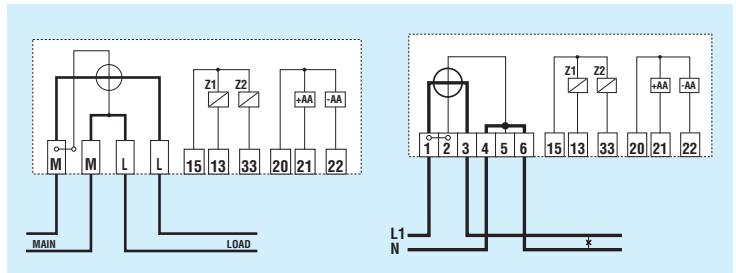
E – Single-phase meter

162 – Meter with LCD and internal clock

D1 – Terminal block for direct connection up to 85 A by DIN 43857

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 $\leq \pm 3$ 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 μ s
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	..... $t_i = 40$ ms (10, 20, 30, ..., 160 ms)
opto-MOS	..... $t_i = 80$ 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

