ELECTRICITY
MEASUREMENT

EA52

Single-phase electricity meter

Single-phase static electricity meter. Intended for measuring active energy in four time-based plans, switched by a built-in real-time clock. It is a reliable and proven solution, preferred due to its broad functionality and compact casing.

FEATURES

- Unidirectional, bidirectional or reverse active energy m`easurement
- Measurement of instantaneous power
- Measurement of phase voltage and current
- Recording maximum power and excessive power for a billing period
- Recording load profile (configurable averaging period)
- Manual, automatic and remote ending of a billing period
- Memory of 16 billing periods
- Real-time clock with a calendar to switch between four rate plans
- Calendar allowing to define special days, permanent and movable holidays for 20 years forward
- An option to activate one of the 5 plans and set the time using a button with a seal
- Communication via an optical port and serial port (RS-485 or RS-232)
- Pulse output for active power
- Extensive event logging
- Immunity to magnetic field
- Dedicated LCD display, signalling proper connection of current circuit and voltage circuit and signalling the presence of voltage and current
- Possibility to read data from the display in case of power failure
- Controlled by KomPaf software (software protection dongle available as an option)

Proven, Functional

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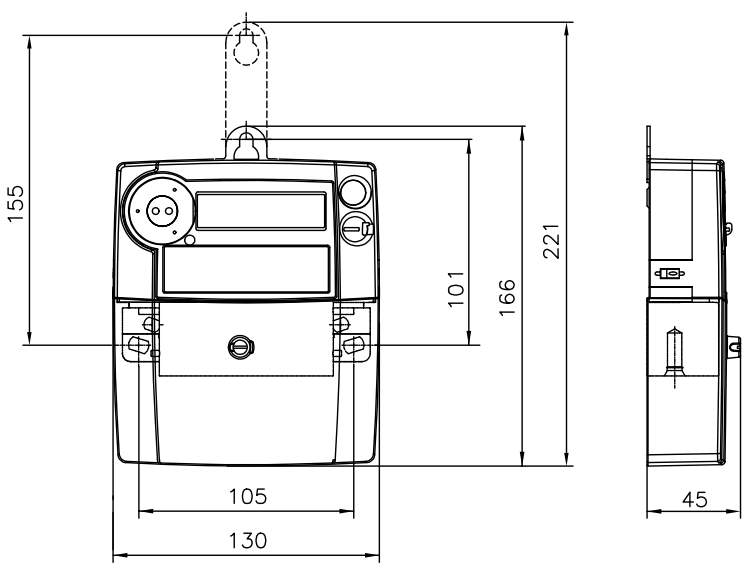
TECHNICAL DATA

Model		EA52grn
Connection method		direct
Rated voltage U_n	[V]	230
Reference current I_{ref}	[A]	5 or 10 or 15
Maximum current I_{max}	[A]	40 or 60
Measurement accuracy of active energy		A or B
Power consumption in current circuit	[VA]	0,03
Power consumption in voltage circuit	[W] / [VA]	<0,7 / <1,2
Electric strength	[kV]	4 (AC 50 Hz), 6 (surge 1,2/50 μs)
Impulse frequency	[imp/kWh]	typically: 6400
Clock		Internal, accuracy not lower than 0.5 s/24 h at 23°C, synchronised by an external signal.
Communication		Optical port, serial port (RS-485 or RS-232) Configurable baud rate from 300 Bd to 9600 Bd. Protocol support: EN 62056-21 (IEC1107).
Outputs		Pulse output for active power
Event logging		End of a billing period, power loss and return, parameterisation, reset, removal of the terminal box cover, opening the casing, along with power values, date and time stamp. Influence of magnetic field with date and time stamp, event duration and amount of energy consumed/imported. Operation time of the meter without mains power supply.
Display		A dedicated LCD display, 8 digits, data presented in the form of OBIS codes (EN 62056-61). Two configurable message lists.
Temperature of operation		from −25°C to 55°C or from -40°C to 70°C
Casing		IP 54, class II insulation
Standards		EN 50470-1 EN 50470-3



TYPE DESIGNATION

12 EA52 g r n / 1

- load profile logging
- power supply with linear regulator
- power logging
- pulse transmitter
- overload I_{max}/I_{ref}

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