ELECTRICITY
MEASUREMENT

CANGU

Single-phase electricity meter

Multipurpose electricity meter for single-phase two-wire networks, with extended functionality. It allows direct measurement of active and reactive energy in multi-rate prepayment metering mode or in a fully autonomous credit mode. Interchangeable communication modules and a built-in contactor make the device a perfect foundation for Smart Metering systems.

FEATURES

- Bidirectional and reverse measurement of active and reactive energy
- Measurement of electrical network parameters: effective current and voltage, frequency, power factor
- Measurement of instantaneous power and maximum power
- Recording load profile
- Operating mode: prepayment, credit or switched prepayment-credit
- Advanced prepayment functions
- Manual or automatic ending of a billing period
- Memory of at least 21 billing periods data
- Real-time clock managing two switchable complex calendars
- Calendars allowing to define any number of special days and permanent holidays, and 240 movable holidays
- Current and power limiting features
- Event logging
- Optical port and built-in communication port: serial (RS-485 or RS-232), M-Bus slave or other
- Removable communication module: PLC, GSM, RS-232/RS-485, LAN, SRD radio or other
- TV remote control via infrared port
- Specialized LCD display
- Measurement data can be read from the display (and by optical connection if powered by a replaceable ½ AA 3.6 V battery) in the event of power failure

Meter's functions depend on the operation mode

Smart, Comprehensive, Modern

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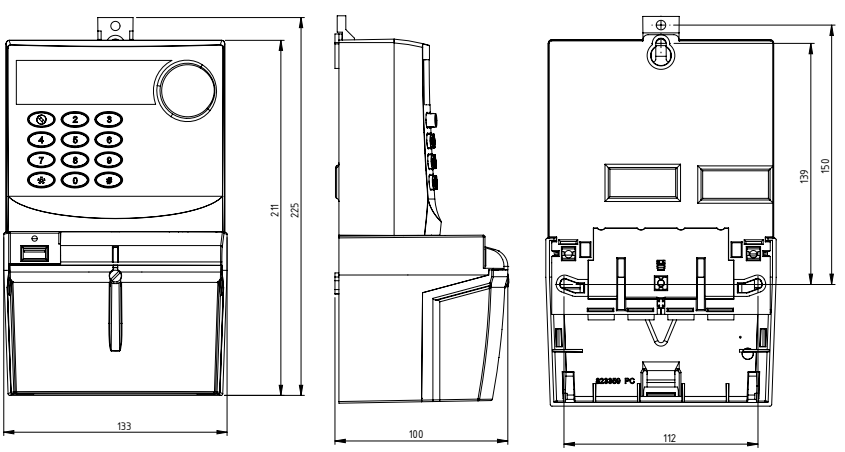
TECHNICAL DATA

Model		CANGU
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 or 80
Measurement accuracy of active energy		A or B
Measurement accuracy of reactive energy		2 or 3
Power consumption in current circuit	[VA]	0,1
Power consumption in voltage circuit	[W] / [VA]	<1 / <3
Electric strength	[kV]	4 (AC 50 Hz), 6 (surge 1,2/50 μs)
Impulse frequency	[imp/kWh]	2560 or 5120
Clock		Internal RTC, accuracy not lower than 0.5s/24h at 23°C, synchronised with the AMR system.
Communication		Optical port, baud rate configurable from 300 to 19200 Bd. Second communication port: serial RS-485, RS-232 or M-Bus slave Removable communication module: PLC, GSM, RS-232/RS-485, LAN, SRD radio or another. Protocol support: comprehensive proprietary protocol dedicated for AMI systems, EN 62056-21 (IEC1107). Infrared port (RC5).
Inputs and outputs		Pulse output or relay output.
Event logging		End of a billing period, power loss and return, current and power overload, synchronisation of the real-time clock, changed configuration of the calendar, unauthorized removal of the terminal box cover, magnetic field tampering with date and time stamp.
Display		A dedicated LCD display (showing manufacturer's or OBIS error codes, EN 62056-61)
Temperature of operation		from −40 °C to 70 °C
Casing		IP 54, class II insulation
Standards		MID Directive (B+D) EN 50470



TYPE DESIGNATION

CANGU 2 2 A P C

- C — LCD display
- P — PLC communication module
- A — system meter
- 2 — maximum current: 60 A
- 2 — base current: 5 A

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