



EC3

Three-phase electricity meter



Static electricity meter for three-phase four-wire networks. Allows direct measurement of active energy in four time-based plans, switched by a built-in real-time clock. An efficient solution available in a wide range of variants.

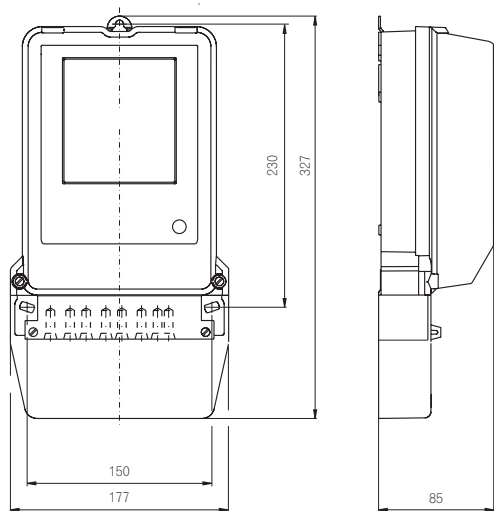
FEATURES

- Unidirectional, bidirectional or reverse active energy measurement
- Measurement of instantaneous power, logging 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 data
- 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 (time zones) and to set the time using a button with a seal
- Communication via an optical port and serial port (RS-485, RS-232 or M-Bus)
- Impulse output for active power
- Extensive event logging
- Resistant to magnetic field
- Separation of current and voltage circuits (EC3grn)
- Dedicated LCD display, proper current and voltage circuit connection signalling and voltage and current presence signalling
- Possibility to read data from the display in case of power failure
- Controlled by KomPaf software (software protection dongle available as an option)

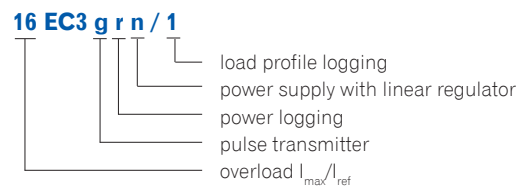
Functional, Reliable

TECHNICAL DATA

Model		EC3gr	EC3grn
Connection method		direct	
Rated voltage U_n	[V]	3x230 / 400	
Reference current I_{ref}	[A]	5 or 10 or 15 or 20	
Maximum current I_{max}	[A]	60 or 65 or 80 or 100	
Measurement accuracy of active energy		A or B	
Power consumption in current circuit	[VA]	<0,05	<0,02
Power consumption in voltage circuit	[W] / [VA]	<0,9 / <8	<0,5 / <1,1
Electric strength	[kV]	4 (AC 50 Hz), 6 (surge 1,2/50 μ s)	
Impulse frequency	[imp/kWh]	typically: 1500	
Clock		Internal, accuracy better than 0.5 s/24 h at 23°C, synchronised by an external signal.	
Communication		Optical port, serial port RS-485 or RS-232, or M-Bus Configurable baud rate from 300 Bd to 9600 Bd. Protocol support: EN 62056-21 (IEC1107), DLMS (optionally).	
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 55, class II insulation	
Standards		EN 50470-1 EN 50470-3	



TYPE DESIGNATION



This publication has been made exclusively for information purposes and shall not constitute an offer under the civil law. The designs are presented as an example; functions of the meter can be customised.

