












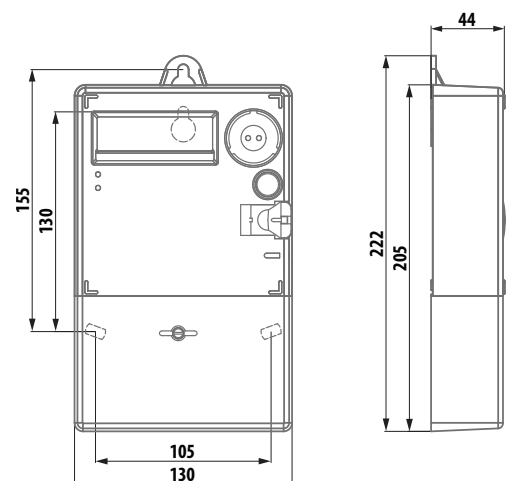
 kWh	Active Energy
 BS	 DIN BS / DIN housing
 IP54	Ingress protection
 Load profile	Load profile
 Optical port	Optical port
 Real-time clock	Real-time clock
 Event log	Event log
 RS485	RS485 interface
 tariff 4	Multi-rate registration
 MID B	 IEC 1 Accuracy class
 Magnetic field detection	Magnetic field detection
 Photovoltaic ready	Photovoltaic ready
 max	Maximum demand

The compactly designed Single-phase ME172 is made to increase your revenues through antifraud protection and tailored metering functionalities. The meter is intended for residential and small commercial applications with the following functions:

- Extensive anti-tampering features
- Import/export energy management
- Photovoltaic friendly design
- “No power reading” functionality
- Extended load profile
- Time-of-use (TOU) – internal tariffication
- RS communication interface

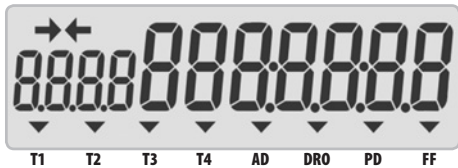
Meter dimensions



Type overview

		ME172-D1 BS	ME172-D1 DIN	ME172-D3 BS	ME172-D3 DIN
Network	Low voltage	●	●	●	●
Connection type	1P2W	●	●	●	●
Communication	RS485	●	●	●	●
	Optical port	●	●	●	●
Input – output options	Output SO	●	●	●	●
	Output OPTOMOS	●	●	●	●

Technical specifications

		ME172-D1 BS	ME172-D1 DIN	ME172-D3 BS	ME172-D3 DIN
Nominal voltage	U_n	230 V			
Voltage range		0.8 – 1.15 U_n			
Reference frequency		50 Hz or 60 Hz			
Current	Base current I_b	5 A			
	Maximal current I_{max}	100 A	85 A	100 A	85 A
	Minimum current I_{min}	0,25 A			
Accuracy class	Active energy	Class A or B (EN 50470 - 3)			
Real-time clock	Accuracy	Better than ± 3 min/year at 23 °C			
	Back-up power supply	Li battery: 5 years, life time up to 20 years			
Temperature ranges (IEC 62052-11)	Operation	-30 °C ... +70 °C; extended -40 °C ... +80 °C			
	Storage	-40 °C ... +85 °C			
Ingress protection IEC 60529		IP54			
Liquid Crystal Display					

Basic functionality

Measurement features

- Two way (“energy”) measurements
- One-way energy flow direction (import), with an electronic reverse running stop
- Always positive energy registration regardless in which way the energy flows
- Maximum current and Demand measurement

Load profiles

- Load-profile recorder - up to more than 700 days, 1 channel and 1 hour
- Maximum 2 channels
- Possibility to set the recording period on 15, 30 or 60 minutes

Communication

- IEC 1107 compliance
- Two communication interfaces:
 - Optical port
 - RS485

Real-time clock (RTC)

- Compliant with IEC 62054-21 standard
- RTC with calendar, based on 32 kHz quartz crystal
- RTC accuracy: better than ± 3 min/year, operation reserve: 5 years, expected Li battery life time: 20 years
- Counter of elapsed time of RTC operation
- Li battery enables data display on LCD when meter is in no-power state

Specifics

- Backlit LCD display
- Detection of opening main and terminal cover
- External magnetic field detector
- Detection of meter wiring
- Photovoltaic ready
- Secured communication channels
- Change of set parameters protected with a sealed pushbutton
- Indication of low Li battery