

devolo three-phase electricity meter

devolo
SMART GRID

The basic meter for household
and small businesses

The basic meter is available as a 60 A and a 100 A variant and can be used as modern measuring equipment and in an intelligent measuring system.



60 A
100 A

Variable. Available as a 60 A or a 100 A variant.



FNN-compliant. SLP or grid basic meter in accordance with FNN specifications



Flexible. Can be used as modern measuring equipment (mME) and within an intelligent measuring system (iMsys).



Recorded. With the optionally equipped grid function, 12 parameters are measured for determining the grid state.



Innovative. The integrated two-tariff terminal in the 60 A meter means that a two-rate tariff can be provided, even without smart meter gateway.



Integrated DIN rail. The complete smart metering infrastructure can be installed on the integrated DIN rail.



User-friendly. Visualisation of the current and past consumption values in 2-line LCD display (in accordance with FNN specifications and the Metering Point Operation Act).



Accurate. Measurement in one or two energy flow directions (suitable for photovoltaic applications) in accordance with MID class A or B.



Installation and expansion. Simply connecting an SMGW turns the mME into an iMsys. A meter exchange is not required.



Harmonised. The interoperability and encrypted, BSI compliant data transmission between the devolo meter and the SMGW is ensured via the LMN interface.



Available. Quickly scalable production and efficient logistics guarantee reliable product availability.

Scenario

Versatile and flexible.

The devolo three-phase electricity meter is available as a 60 A or a 100 A variant. The basic meter is optionally equipped with grid functionalities. A total of 12 different parameters are recorded including voltage and current values. These parameters can be used for determining the grid state. The integrated two tariff terminals let the energy provider offer customers a two tariffs („peak“, „off-peak“), without needing the installation of an intelligent measuring system.

In addition, the three-phase electricity meter can be used as a component of the intelligent measuring system. The integrated DIN rail provides space for a smart meter gateway and a control box or a communication device. Both options for using the devolo electricity meter reduce the complexity involved with procuring and installing the devices. This offers the measuring point operator the greatest possible flexibility.

Technical data

Connection type	2- and 4-wire active energy meter with direct connection
Interfaces	LMN: Cable-based, 2 pieces RS485 – bidirectional INFO – optically unidirectional Infrared test LED 10,000 Imp./kWh
Functional features and protocol	Available as SLP and grid variant, in accordance with FNN specifications
Nominal voltage U_n	230 V, 3 x 230/400 V
Minimum current I_{min}	0,25 A
Reference current I_{ref}	5 A
Limiting current I_{max}	60 A or 100 A
Nominal frequency	50 Hz
Accuracy class	MID class A or B
Energy measurement	Energy flow measurement (+A) with a non-return lock Energy flow measurement in two directions (+A/-A) Energy flow measurement of self-generated power, with a non-return lock (-A) Energy flow measurement of self-generated power, without a non-return lock (-As)
Latency	Less than 2 seconds
LCD display	FNN-compliant display, configurable via PIN code
Feature	Controllable via external terminals (60 A version only)
Dimensions (in mm)	171 (width) x 323 (height) x 93 (depth)
Ambient temperature (storage and operation)	-40 to +70 °C
Ambient conditions	Maximum 95% humidity, non-condensing
Protection class	Insulation of the closed device: Protection class II / Safety class: IP51
Certifications	CE conformity, MID conformity, national authorisation, FNN precompliance for measuring systems, FNN guideline for the evaluation of the reliability of electricity meters

Product comparison



Construction	three-point mounting	three-point mounting
Measurement mode	direct	direct
Three-phase meter	yes	yes
Single-phase meter	yes (L3)	yes (L3)
Clamp diameter	7,5 mm	9,6 mm
Max. connection cross section	16 mm ²	35 mm ²
Grid function	yes (optional)	yes (optional)
Two-tariff function	yes (optional)	via SMGW
Accuracy class	A or B	A or B
Integrated DIN rail	yes	yes
Fused supply voltage for additional modules	3- or 1-phase	1-phase
Additional voltage taps	yes	no

We'd be happy to serve as your consultant.
Just contact us.

Phone: +49 241 182 79-150
smart@devolo.de
www.devolo.com/smart

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