

# EEM-PM157-SLP - Measuring device



1269236

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Direct current energy meter with direct measurement up to 1000 V / 650 A, with RS-485 interfaces for the programming software and the DC charging controller, correction of charging cable losses, operating temperature up to +80°C, certified in accordance with measuring and calibration law

## Commercial data

Item number	1269236
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C446
Product key	CMMC31
GTIN	4063151421748
Weight per piece (including packing)	505.5 g
Weight per piece (excluding packing)	500 g
Customs tariff number	90303100
Country of origin	DE

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## Technical data

### Product properties

Product type	Energy meter
Product family	EMpro
Number (Charging processes)	> 225000 (Start- and stop-charge records)
Number (Capacity of calibration log)	> 2500

### Insulation characteristics

Overvoltage category	III
Degree of pollution	2

### Electrical properties

Electric strength	3521 V (IEC 61851-23, EN 62052-31)
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### Supply

Supply voltage range	19.2 V DC ... 36 V DC
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### Input data

#### Measurement

Input voltage range	150 V DC ... 1000 V DC
Input current range	6.5 A ... 650 A (Direct measurement)
Power consumption	< 5 W
	< 0.5 W ( $U_N$ )
	< 0.12 W ( $I_{max}$ )
Startup current $I_{st}$	0.52 A
Minimum current $I_{min}$	6.5 A
Limiting current $I_{max}$	650 A
Transient current $I_{tr}$	13 A
Reference current $I_{ref}$	130 A

### Output data

Pulse LED	1000 imp/kWh (Metrological LED)
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### Connection data

#### Voltage

Connection method	Screw connection
Conductor cross section rigid	0.75 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section flexible	0.75 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section AWG	20 ... 16
Tightening torque	0.5 Nm ... 0.6 Nm

#### Current

Connection method	Screw connection
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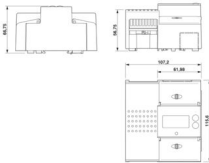
Screw thread	M8
	M10
Tightening torque	17.5 Nm ... 20 Nm

## Interfaces

Communication:

Communication protocol	SLIP
Communication standard	RS-485
Connection method	RJ12
Transmission speed range	9600 bps ... 115200 bps
Parity	odd, even, none

## Dimensions

Dimensional drawing	
Width	107.2 mm
Height	115.6 mm
Depth	66.75 mm

## Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 2000 m
Max. permissible relative humidity (operation)	97.5 % (non-condensing)

## Approvals

CE

Certificate	CE-compliant
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Calibration law

Certificate	Conforms to calibration law
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## Standards and regulations

Standards/specifications	EN 50470-1
	EN 50470-3
	IEC 62052-41
	DIN EN 62052-11
	VDE-AR-E 2418-3-100

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	EN 62053-41
	OCMF 1.0
	PTB-A 20.1
	PTB-A 50.7

## Mounting

Mounting type	NS 35 ...
Mounting position	Horizontal DIN rail

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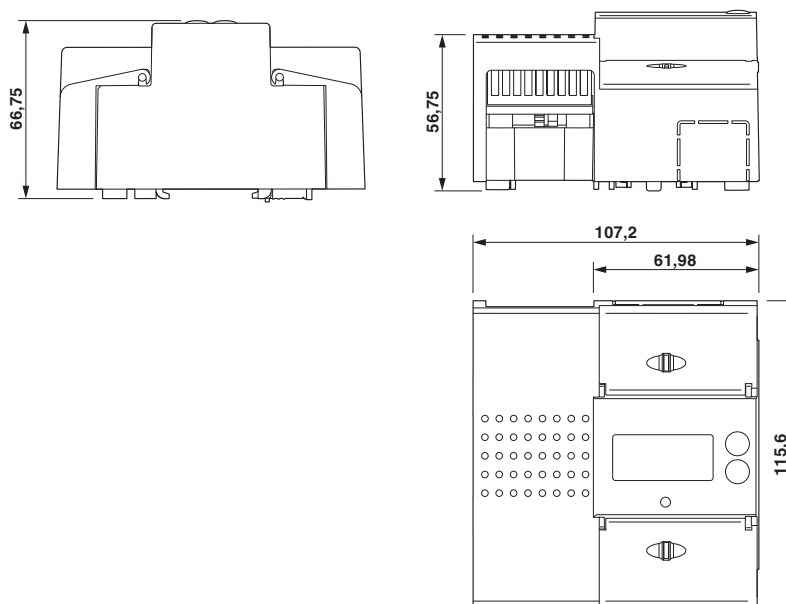
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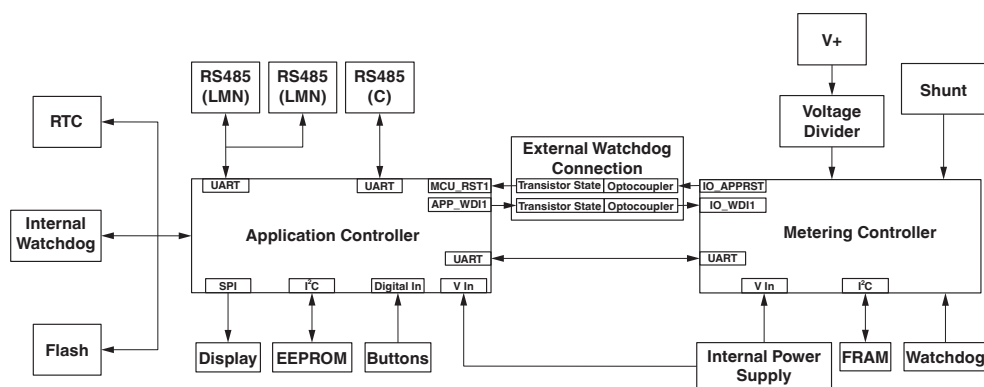


## Drawings

Dimensional drawing



Block diagram



Block diagram

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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1269236>

### PTB-BG

Approval ID: DE-23-M-PTB-0021

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## Classifications

### ECLASS

ECLASS-13.0	27142330
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### ETIM

ETIM 9.0	EC002301
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	1957fd60-0c59-4233-a22e-74f113e41f68

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