

EEM-PM157-SLP - Measuring device



1269236

<https://www.phoenixcontact.com/pc/products/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
Product key	CK4C31
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

Technical data

Product properties

Product type	Energy meter
Data management status	
Article revision	00
Insulation characteristics	
Overvoltage category	III
Degree of pollution	2

Electrical properties

Electric strength	3521 V (IEC 61851-23, EN 62052-31)
Supply	
Supply voltage range	19.2 V DC ... 36 V DC

Input data

Measurement	
Input voltage range	150 V DC ... 1000 V DC
Input current range	6.5 A ... 650 A 1 % (EN 50470-3)
Power consumption	< 5 W
	< 0.5 W (U_N)
	< 0.12 W (I_{max})
Start current I_{st}	0.52 A
Minimal current I_{min}	6.5 A
Maximum current I_{max}	650 A
Transient current I_{tr}	13 A
Nominal current I_{ref}	130 A

Output data

Pulse LED	1000 imp/kWh
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Connection data

Voltage	
Conductor cross section rigid	0.75 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.75 mm ² ... 1.5 mm ²
Conductor cross section AWG	20 ... 16
Tightening torque	0.5 Nm ... 0.6 Nm
Current	
Connection method	Screw connection
Screw thread	M8
	M10

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Tightening torque	17.5 Nm ... 20 Nm
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Interfaces

Communication:

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

Dimensions

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
	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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Approvals

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PTB-BG

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

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Classifications

ECLASS

ECLASS-11.0	27142330
ECLASS-12.0	27142330
ECLASS-13.0	27142330

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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