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Multi-functional energy measuring device with integrated Modbus RTU/TCP interface for measuring electrical parameters in low-voltage installations up to 690 V.



Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 260570
GTIN	4055626260570
Weight per Piece (excluding packing)	441.000 g
Custom tariff number	90303100
Country of origin	Germany

Technical data

Dimensions

Width	90 mm
Height	80 mm
Depth	64 mm

Ambient conditions

Ambient temperature (operation)	-10 °C 55 °C
Ambient temperature (storage/transport)	-40 °C 70 °C
Maximum altitude	≤ 2000 m
Max. permissible relative humidity (operation)	\leq 95 % (non-condensing)
Degree of protection	IP40 (Display)
	IP20 (Housing)

Input data

Measuring principle	True r.m.s. value measurement
Acquisition of harmonics	up to 63rd harmonic
Measured value	AC sine (50/60 Hz)



Technical data

Input data

Input name	Voltage measuring input V1, V2, V3
Input voltage range	35 V AC 690 V AC (Phase/Phase)
	20 V AC 400 V AC (Phase/neutral conductor)
	60 V AC 2000000 V AC (primary)
	60 V AC 400 V AC (secondary)
Surge voltage capacity	760 V AC (Phase/Phase)
Precision	0.2 %
Input name	Current measurement I1, I2, I3
Input current	1 A (secondary)
	5 A (secondary)
Current measuring range	1 A 20000 A (primary)
Overload capacity	6 A (I _{max})
Response threshold from measuring range nominal value	10 mA (1 A)
Precision	0.2 %
Current overload	50 A for 1 s
Precision	0.5 %
Active energy (IEC 62053-22)	Class 0.5 S
Reactive power (IEC 62053-23)	Class 2
Description of the input	Digital input in accordance with IEC/EN 61131-2 (type 3)
Number	1
Voltage input signal	0 V DC 30 V DC
Current input signal	2 mA 15 mA

Output data

Output description	Digital output in accordance with IEC/EN 61131-2 (type 3)
Number	1
Current output signal	≤ 100 mA

Device interface

Designation	Network interface	
Communication protocol	Modbus/TCP	
	REST	
Connection method	RJ45	
Designation	Network interface	
Communication protocol	Modbus/RTU	
Communication standard	RS-485	
Connection method	Screw connection	
Transmission speed range	2.4 kbps 115.2 kbps	
Resistance	120 Ω (integrated)	

General

Display LCD display, two-color backlit	
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Technical data

General

Supply voltage range	100 V AC 230 V AC (±20 %)
	150 V DC 250 V DC (±20 %)
Power consumption	\leq 4 W
Mains type	3-phase (3 or 4-wire), 2-phase (2-wire), and single-phase (1-wire)
Color	gray
Conformance	CE-compliant
Test voltage	4 kV AC (50 Hz, 1 min.)
Product family	EMpro

Connection data

Connection name	Current / voltage / supply
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.2 mm ² 6 mm ²
Conductor cross section flexible	0.2 mm ² 4 mm ²
Conductor cross section AWG	24 10
Torque	0.5 Nm 0.6 Nm

Connection data 2

Connection name	Digital I/O / communication
Connection method	Screw connection
Stripping length	7 mm
Screw thread	M3
Conductor cross section solid	0.14 mm ² 2.5 mm ²
Conductor cross section flexible	0.14 mm² 1.5 mm²
Conductor cross section AWG	26 14
Torque	0.5 Nm 0.6 Nm

Connection data 3

Connection name	RS-485
Connection method	Screw connection
Stripping length	7 mm
Screw thread	M3
Conductor cross section solid	0.2 mm ² 2.5 mm ²
Conductor cross section flexible	0.2 mm ² 2.5 mm ²
Conductor cross section AWG	24 12
Torque	0.5 Nm 0.6 Nm

UL data

	Operating mode	Indoor use
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Standards and Regulations



Technical data

Standards and Regulations

Conformance	CE-compliant
Environmental Product Compliance	

REACh SVHC Lead 7439-92-1 China RoHS Environmentally Friendly Use Period = 50 years For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Classifications

eCl@ss

eCl@ss 5.0	27200301
eCl@ss 5.1	27200301
eCl@ss 6.0	27142300
eCl@ss 7.0	27142330
eCl@ss 8.0	27142330
eCl@ss 9.0	27142330

ETIM

ETIM 4.0	EC002301
ETIM 5.0	EC002301
ETIM 6.0	EC002301
ETIM 7.0	EC002301

Approvals

Approvals

Approvals

EAC / UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

EAC	RU*DE*08.B.00734/19
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Approvals

UL Listed	USTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 357804
cUL Listed	CUL LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 357804
cULus Listed	CUL)US		

Accessories

Accessories

Current transformer

Current transformer - PACT MCR-V2-3015-60-PT - 2907413



Window-type current transformer with screw and Push-in connection technology, conductor connection for Push-in: from directly above, no tools required. The following can be selected: primary current (50 ... 750) A AC, secondary current (1 or 5) A AC, accuracy class 0.5 or 1, VA power

Current transformer - PACT MCR-V2-4012-70-PT - 2907414



Window-type current transformer with screw and Push-in connection technology, conductor connection for Push-in: from directly above, no tools required. The following can be selected: primary current (100 ... 1000) A AC, secondary current (1 or 5) A AC, accuracy class 0.5 or 1, VA power

Current transformer - PACT MCR-V2-5012-85-PT - 2907416



Window-type current transformer with screw and Push-in connection technology, conductor connection for Push-in: from directly above, no tools required. The following can be selected: primary current (100 ... 1500) A AC, secondary current (1 or 5) A AC, accuracy class 0.5 or 1, VA power



Accessories

Current transformer - PACT MCR-V2-6015-85-PT - 2907417



Window-type current transformer with screw and Push-in connection technology, conductor connection for Push-in: from directly above, no tools required. The following can be selected: primary current (200 ... 1600) A AC, secondary current (1 or 5) A AC, accuracy class 0.5 or 1, VA power

Current transformer - PACT MCR-V1-21-44 - 2277268



Bus-bar current transformer, primary current can be selected between 50...500 A AC; secondary current can be selected as 1 A AC or 5 A AC; accuracy class can be selected as 0.5 or 1; rated power can be selected

Current transformer - PACT MCR-V2- 3015- 60 - 2277271



Window-type current transformer, primary current can be selected between 50...750 A AC; secondary current can be selected as 1 A AC or 5 A AC; accuracy class can be selected as 0.5 or 1; rated power can be selected

Current transformer - PACT MCR-V2- 4012- 70 - 2277284



Window-type current transformer, primary current can be selected between 75...1000 A AC; secondary current can be selected as 1 A AC or 5 A AC; accuracy class can be selected as 0.5 or 1; rated power can be selected

Current transformer - PACT MCR-V2- 5012- 85 - 2277297



Window-type current transformer, primary current can be selected between 100...1500 A AC; secondary current can be selected as 1 A AC or 5 A AC; accuracy class can be selected as 0.5 or 1; rated power can be selected



Accessories

Current transformer - PACT MCR-V2- 6015- 85 - 2277336



Window-type current transformer, primary current can be selected between 200...1600 A AC; secondary current can be selected as 1 A AC or 5 A AC; accuracy class can be selected as 0.5 or 1; rated power can be selected

Current transformer - PACT MCR-V2-10020-129 - 2277378



Window-type current transformer, primary current can be selected between 800 and 4,000 A AC, secondary current can be selected 1 A AC or 5 A AC, accuracy class can be selected 0.5 or 1, rated power can be selected

Current transformer - PACT MCR-V3-60 - 2277417



Winding current transformer, primary current can be selected between 1...40 A AC; secondary current can be selected as 1 A AC or 5 A AC; accuracy class can be selected as 0.5 or 1; rated power can be selected

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