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



Key Commercial Data

Packing unit	1 рс
GTIN	4 055626 476094
GTIN	4055626476094
Weight per Piece (excluding packing)	428.000 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 RC1, RC2, RC3
Input current	4000 A
Response threshold from measuring range nominal value	5 A
Precision	< 1 %
	1 %
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
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



Technical data

General

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 mm ² 1.5 mm ²
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

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Standards and Regulations

Conformance	CE-compliant
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Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years



Technical data

Environmental Product Compliance

	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"
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Classifications

eCl@ss

eCl@ss 8.0	27142330
eCl@ss 9.0	27142330

ETIM

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	EAE		RU*DE*08.B.00734/19
UL Listed	(U) LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 357804
cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 357804
cULus Listed	CUUUS LISTED		



Accessories

Accessories

Mounting material

Holder - PACT RCP-CLAMP - 2904895



The optional holding device ensures the Rogowski coil is securely seated on busbars with a thickness of 10 ... 15 mm. During installation, the coil housing is pushed onto the flange of the holding device and snaps in automatically.

Rogowski coil

Coil - PACT RCP-D95 - 2904890



300 mm long Rogowski coil. The measuring coil diameter when installed is 95 mm. The Rogowski coil is used for AC current measurement for busbars and power lines.



Coil - PACT RCP-D140 - 2904891



450 mm long Rogowski coil. The measuring coil diameter when installed is 140 mm. The Rogowski coil is used for AC current measurement for busbars and power lines.

Coil - PACT RCP-D190 - 2904892



600 mm long Rogowski coil. The measuring coil diameter when installed is 190 mm. The Rogowski coil is used for AC current measurement for busbars and power lines.

Coil - PACT RCP-D95-5M - 2910322



300 mm long Rogowski coil. The measuring coil diameter when installed is 95 mm. The Rogowski coil is used for AC current measurement for busbars and power lines.



AC current measurement for busbars and power lines.

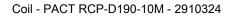
Accessories

Coil - PACT RCP-D95-10M - 2910323



300 mm long Rogowski coil. The measuring coil diameter when installed is 95 mm. The Rogowski coil is used for AC current measurement for busbars and power lines.

600 mm long Rogowski coil. The measuring coil diameter when installed is 190 mm. The Rogowski coil is used for





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