

# PACT RCP-4000A-1A - Measuring transducer



2902990

<https://www.phoenixcontact.com/us/products/2902990>

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This is an individual product; please order the complete set. The measuring transducer processes the mV signal of the upstream Rogowski coil. The measuring transducer has 8 current measuring ranges (100 A ... 4000 A AC) which can be set; max. output current of 1 A AC.

## Commercial data

Item number	2902990
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C444
Product key	CMMA12
GTIN	4046356703734
Weight per piece (including packing)	87.7 g
Weight per piece (excluding packing)	136.46 g
Customs tariff number	85437090
Country of origin	DE

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## Technical data

### Product properties

Product type	Current measuring transducer
Product family	Measuring transducer for Rogowski coil
Set comprises	2904921 PACT RCP-4000A-1A-D95
	2910325 PACT RCP-4000A-1A-D95-5M
	2910326 PACT RCP-4000A-1A-D95-10M
	2904922 PACT RCP-4000A-1A-D140
	1033483 PACT RCP-4000A-1A-D140-10M
	2904923 PACT RCP-4000A-1A-D190
	2910327 PACT RCP-4000A-1A-D190-10M

### Electrical properties

#### Measuring transducers

Linearity error	< 0.5 % (From the range end value)
Maximum transmission error	≤ 0.5 % (From the range end value)
Frequency range	45 Hz ... 65 Hz
Current consumption	< 190 mA (at 19.2 V)
Test voltage	1.5 kV AC (Supply/input and output: 50 Hz, 1 min)

#### General

Can be calibrated	no
Accuracy class	1
Converter type	Measuring transducer for Rogowski coil

#### Supply: Measuring transducers

Nominal supply voltage	24 V DC -20 % ... +25 %
Nominal supply voltage range	19.2 V DC ... 30 V DC
Max. current consumption	190 mA
Power consumption	4 W

### Input data

#### Signal

Input signal (at 50 Hz)	100 mV (1000 A)
Curve type	Sine
Input impedance	27 kΩ (smallest measuring range)

#### Current transformer

Configurable/programmable	Via DIP switches
Rated power	1.25 VA
Primary rated current $I_{pn}$	0 A AC ... 100 A AC
	0 A AC ... 250 A AC
	0 A AC ... 400 A AC

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	0 A AC ... 630 A AC
	0 A AC ... 1000 A AC
	0 A AC ... 1500 A AC
	0 A AC ... 2000 A AC
	0 A AC ... 4000 A AC
Phase angle	< 1 °
Can be calibrated	no
Accuracy class	1
Converter type	Measuring transducer for Rogowski coil

## Output data

### Signal

Designation	Measuring transducer
Current output signal	0 A AC ... 1 A AC
Load	0 Ω ... 1.25 Ω

## Connection data

### Measuring transducer side

Connection method	Screw connection
Stripping length	7 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 14
Tightening torque	0.5 Nm ... 0.6 Nm

## Signaling

Operating voltage display	Green LED
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## Dimensions

### Item dimensions

Width	22.5 mm
Height	85 mm
Depth	70.4 mm
Width	22.5 mm
Height	85 mm
Depth	70.4 mm

## Material specifications

Housing material	PA
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## Environmental and real-life conditions

### Ambient conditions

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Measuring transducer degree of protection	IP20
Ambient temperature (operation)	-10 °C ... 65 °C (-14 °F ... 149 °F)
Ambient temperature (operation) (Measuring transducer)	-20 °C ... 70 °C (Measuring transducer)
Ambient temperature (storage/transport)	-25 °C ... 85 °C (Measuring transducer)
Altitude	< 2000 m
Permissible humidity (operation)	5 % ... 95 % (non-condensing)

## Approvals

### CMIM

Certificate	CMIM-compliant
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## Mounting

Mounting type	DIN rail mounting
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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2902990>



**EAC**

Approval ID: RU\*DE\*08.B.01187/19



**UL Listed**

Approval ID: E123528



**cUL Listed**

Approval ID: E123528

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## Classifications

### ECLASS

ECLASS-13.0	27210123
ECLASS-15.0	27210123

### ETIM

ETIM 10.0	EC002475
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### UNSPSC

UNSPSC 21.0	39121000
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 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	0e558e7e-d927-4fab-a730-8f4000f84ef2

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