


# Current transformer - PACT RCP-4000A-1A-D95-10M - 2910326

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)

Set consisting of a 1 A measuring transducer and a Rogowski coil with signal line. Length of Rogowski coil: 300 mm, diameter: 95 mm. Length of signal line: 10 m. The Rogowski coil measures the AC current of busbars and power lines.



## Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 437651
GTIN	4055626437651

## Technical data

### Dimensions

Width	22.5 mm
Height	85 mm
Depth	70.4 mm

### Ambient conditions

Ambient temperature (operation)	-30 °C ... 80 °C (Measuring coil)
	-20 °C ... 70 °C (Measuring transducer)
Ambient temperature (storage/transport)	-40 °C ... 80 °C (Measuring coil)
	-25 °C ... 85 °C (Measuring transducer)
Maximum altitude	< 2000 m
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Measuring coil degree of protection	IP67 (not assessed by UL)
Measuring transducer degree of protection	IP20

### Measuring transducer supply

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

# Current transformer - PACT RCP-4000A-1A-D95-10M - 2910326

## Technical data

### Measuring coil input data

Frequency measuring range	40 Hz ... 20000 Hz
Position error	< 1 %
Linearity error	0.1 %

### Measuring transducer input data

Measuring ranges (current)	100 A 250 A 400 A 630 A 1000 A 1500 A 2000 A 4000 A
Configurable/programmable	Via DIP switches
Phase angle	< 1 °
Rated power	1.5 VA
Max. distances for copper cables at $P_{N \max}$	32 m (0.75 mm <sup>2</sup> (AWG 20))
	64 m (1.5 mm <sup>2</sup> (AWG 16))
	107 m (2.5 mm <sup>2</sup> (AWG 14))

### Measuring transducer signal input

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

### Measuring coil signal output

Output signal (at 50 Hz)	100 mV (no load, at 1,000 A)
Output voltage (in no-load operation)	$V_{OUT} = M \cdot di/dt$
Output voltage (sinusoidal, in no-load operation)	100 mV ( $V_{OUT} = 2 \cdot \pi \cdot M \cdot f \cdot I$ (M = 0.318 μH; example: At 50 Hz; I = 1,000 A))

### Measuring transducer signal output

Current output signal	0 A AC ... 1 A
Load	0 Ω ... 1.5 Ω

### General data, measuring coil

Length of measuring coil	300 mm
Diameter of measuring coil	8.3 mm ±0.2 mm
Length of signal cable	10000 mm
Conductor structure signal line	2x 0.22 mm (Signal (tinned))
	1x 0.22 mm (Shielding (tinned))
Coil material	Elastollan
Housing material	PC
Insulation	double insulation
Rated insulation voltage	1000 V AC (rms CAT III)
	600 V AC (rms CAT IV)
Test voltage	10.45 kV (DC / 1 min.)
Basic accuracy	<± 0.21 %
UL, USA/Canada	UL 61010 Recognized

### General data for measuring transducer

Linearity error	< 0.5 % (From the range end value)
-----------------	------------------------------------

# Current transformer - PACT RCP-4000A-1A-D95-10M - 2910326

## Technical data

### General data for measuring transducer

Maximum transmission error	≤ 0.5 % (From the range end value)
Frequency range	45 Hz ... 65 Hz
Max. detectable harmonics	< 2 kHz
Current consumption	< 190 mA (at 19.2 V)
Housing material	Polyamide
Test voltage	1.5 kV AC (Supply/input and output: 50 Hz, 1 min)
UL, USA/Canada	UL 508 Listed

### General data

Standards/regulations	IEC 61010-1
	IEC 61010-2-032
Insulation	double insulation
Temperature coefficients	0.005 %/K (+10°C ... +70°C; both components have the same ambient temperature)
	0.07 %/K (-20°C ... +10°C; both components have the same ambient temperature)
Typical measuring error	< 1 %

### Connection data

Connection name	Measuring transducer side
Connection method	Screw connection
Stripping length	7 mm
Screw thread	M3
Conductor cross section solid	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
Torque	0.5 Nm ... 0.6 Nm

### Standards and Regulations

Standards/regulations	IEC 61010-1
	IEC 61010-2-032
Insulation	double insulation
Pollution degree	2
Overvoltage category	III (1000 V, to neutral conductor)
	IV (600 V, to neutral conductor)

### 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"

# Current transformer - PACT RCP-4000A-1A-D95-10M - 2910326

## Classifications

eCl@ss

eCl@ss 10.0.1	27210902
eCl@ss 4.0	27210900
eCl@ss 4.1	27210900
eCl@ss 5.0	27210900
eCl@ss 5.1	27210900
eCl@ss 6.0	27210900
eCl@ss 7.0	27210902
eCl@ss 8.0	27210902
eCl@ss 9.0	27210902

ETIM

ETIM 5.0	EC002048
ETIM 6.0	EC002048
ETIM 7.0	EC002048

## Approvals

Approvals

---

Approvals

EAC

---

Ex Approvals

---

Approval details

EAC		RU*DE*08.B.01187/19
-----	--	---------------------

## 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.

## Current transformer - PACT RCP-4000A-1A-D95-10M - 2910326

### Accessories

---

---

Phoenix Contact 2020 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Current Transformers](#) category:*

*Click to view products by [Phoenix Contact](#) manufacturer:*

Other Similar products are found below :

[L595100](#) [ACST-260](#) [MP3500](#) [L595050](#) [BV EI 304 2089](#) [PACT RCP-4000A-UIRO-PT-D14](#) [PACT RCP-4000A-UIRO-PT-D19](#) [E54CT1L](#)  
[CTD-KIT](#) [44021](#) [44104](#) [44176](#) [44248](#) [45023](#) [45041](#) [45071](#) [PA3828NL](#) [CT16-1-50A/50MA](#) [SPCT 100/60 1200/5A VA 15 CL 0.5](#) [SPCT](#)  
[100/60 1000/5A VA 15 CL 0.5](#) [SPCT 100/60 600/5 A VA 7.5 CL 1](#) [SPCT 100/60 600/5 A VA 5 CL 0.5](#) [SPCT 100/60 800/5 A VA 10 CL 0.5](#)  
[SPCT 140/100 1200/5A VA 15 CL 0.5](#) [SPCT 140/100 1250/5A VA 15 CL 0.5](#) [SPCT 140/100 1500/5A VA 15 CL 0.5](#) [SPCT 140/100 1600/5A](#)  
[VA 15 CL 0.5](#) [SPCT 140/100 1000/5A VA 15 CL 0.5](#) [SPCT 140/100 2500/5A VA 15 CL 0.5](#) [SPCT 140/100 2000/5A VA 15 CL 0.5](#) [SPCT](#)  
[140/100 3000/5A VA 15 CL 0.5](#) [SPCT 140/100 800/5A VA 15 CL 0.5](#) [SPCT 62/30 50/5A VA1 CL 3](#) [SPCT 62/30 60/5A VA1 CL 3](#) [SPCT](#)  
[62/30 75/5A VA1 CL 3](#) [SPCT 62/30 75/5A VA3 CL 3](#) [SPCT 62/40 100/5 A VA 1 CL 1](#) [SPCT 62/40 125/5 A VA 1 CL 1](#) [SPCT 62/40 150/5 A](#)  
[VA 3 CL 1](#) [SPCT 62/40 160/5 A VA 1.5 CL 1](#) [SPCT 62/40 200/5 A VA 2,5 CL 0,5](#) [SPCT 62/40 200/5 A VA 3 CL 1](#) [SPCT 62/40 250/5 A VA](#)  
[3 CL 1](#) [SPCT 62/40 300/5 A VA 3 CL 0.5](#) [SPCT 62/40 400/5 A VA 3.75 CL 0.5](#) [2CSM029000R1211](#) [HPT205NBJ-1](#) [HCT204KFH](#) [HCT20K-](#)  
[QD](#) [HPT205A/F](#)