

# PACT RCP-4000A-1A-D95 - Current transformer



2904921

<https://www.phoenixcontact.com/us/products/2904921>

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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: 3 m. The Rogowski coil measures the AC current of busbars and power lines.



## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2904921       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C444          |
| Product key                          | CMMA12        |
| GTIN                                 | 4046356900966 |
| Weight per piece (including packing) | 299 g         |
| Weight per piece (excluding packing) | 419 g         |
| Customs tariff number                | 85437090      |
| Country of origin                    | DE            |

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## Set consists of

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

2902990

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



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.

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### PACT RCP-D95 - Coil

2904890

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

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## Technical data

### Product properties

|                |                                            |
|----------------|--------------------------------------------|
| Product type   | Current transformer                        |
| Product family | Rogowski coil and 1 A measuring transducer |

### Insulation characteristics

|                      |                                    |
|----------------------|------------------------------------|
| Insulation           | double insulation                  |
| Overvoltage category | III (1000 V, to neutral conductor) |
|                      | IV (600 V, to neutral conductor)   |
| Pollution degree     | 2                                  |

### Electrical properties

|                          |                                                                                  |
|--------------------------|----------------------------------------------------------------------------------|
| Electrical isolation     | Reinforced insulation in accordance with IEC 61010-1                             |
| Typical measuring error  | < 1 %                                                                            |
| Protective circuit       | Surge protection; 33 V suppressor diode                                          |
| 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)  |

### Measuring coil

|                                 |                                 |
|---------------------------------|---------------------------------|
| Conductor structure signal line | 2x 0.22 mm (Signal (tinned))    |
|                                 | 1x 0.22 mm (Shielding (tinned)) |
| Insulation                      | double insulation               |
| Rated insulation voltage        | 1000 V AC (rms CAT III)         |
|                                 | 600 V AC (rms CAT IV)           |
| Test voltage                    | 10.45 kV DC (60 s)              |
| Accuracy class                  | 0.2 (IEC 61869-10: A1)          |

### 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                                   |
| Max. detectable harmonics  | < 2 kHz                                           |
| 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                                         |
| Converter type    | Rogowski coil and 1 A measuring transducer |

### 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                  |

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|                   |     |
|-------------------|-----|
| Power consumption | 4 W |
|-------------------|-----|

## Input data

### Frequency

|                           |                    |
|---------------------------|--------------------|
| Designation               | Measuring coil     |
| Frequency measuring range | 40 Hz ... 20000 Hz |

### 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                        |
|                                | 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                                         |
| Converter type                 | Rogowski coil and 1 A measuring transducer |

## Output data

### Signal

|                                                   |                                                                                                          |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Designation                                       | Measuring coil                                                                                           |
| 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)) |

### Signal

|                                                  |                          |
|--------------------------------------------------|--------------------------|
| Designation                                      | Measuring transducer     |
| Current output signal                            | 0 A AC ... 1 A AC        |
| Rated power                                      | 1.25 VA                  |
| Load                                             | 0 Ω ... 1.25 Ω           |
| Max. distances for copper cables at $P_{N \max}$ | 16 m (0.75 mm² (AWG 20)) |
|                                                  | 32 m (1.5 mm² (AWG 16))  |
|                                                  | 55 m (2.5 mm² (AWG 14))  |

## Connection data

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## 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 |
|---------------------------|-----------|

## Dimensions

### Item dimensions

|        |         |
|--------|---------|
| Width  | 22.5 mm |
| Height | 85 mm   |
| Depth  | 70.4 mm |

### Measuring coil

|          |                |
|----------|----------------|
| Length   | 300 mm         |
| Diameter | 8.3 mm ±0.2 mm |

### Measuring coil when installed

|          |       |
|----------|-------|
| Diameter | 95 mm |
|----------|-------|

### Signal line

|        |         |
|--------|---------|
| Length | 3 m     |
| Width  | 22.5 mm |
| Height | 85 mm   |
| Depth  | 70.4 mm |

## Material specifications

|                  |            |
|------------------|------------|
| Housing material | PC         |
|                  | PA         |
| Coil material    | Elastollan |

## Environmental and real-life conditions

### Ambient conditions

|                                                        |                                         |
|--------------------------------------------------------|-----------------------------------------|
| Measuring coil degree of protection                    | IP54 (not assessed by UL)               |
| Measuring transducer degree of protection              | IP20                                    |
| Ambient temperature (operation) (Measuring coil)       | -30 °C ... 80 °C (Measuring coil)       |
| Ambient temperature (operation) (Measuring transducer) | -20 °C ... 70 °C (Measuring transducer) |
| Ambient temperature (storage/transport)                | -40 °C ... 80 °C (Measuring coil)       |
|                                                        | -25 °C ... 85 °C (Measuring transducer) |

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|                                  |                               |
|----------------------------------|-------------------------------|
| Altitude                         | < 2000 m                      |
| Permissible humidity (operation) | 5 % ... 95 % (non-condensing) |

## Approvals

### CE

|             |              |
|-------------|--------------|
| Certificate | CE-compliant |
|-------------|--------------|

### CMIM

|             |                |
|-------------|----------------|
| Certificate | CMIM-compliant |
|-------------|----------------|

### UL, USA/Canada

|                |                     |
|----------------|---------------------|
| Identification | UL 61010 Recognized |
| Note           | Measuring coil      |

### UL, USA/Canada

|                |                      |
|----------------|----------------------|
| Identification | UL 508 Listed        |
| Note           | Measuring transducer |

## EMC data

|                               |                                |
|-------------------------------|--------------------------------|
| Electromagnetic compatibility | Conformance with EMC directive |
| Noise immunity                | EN 61000-6-3                   |

### Noise emission

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-6-4 |
|-----------------------|--------------|

## Standards and regulations

|                       |                                                      |
|-----------------------|------------------------------------------------------|
| Electrical isolation  | Reinforced insulation in accordance with IEC 61010-1 |
| Standards/regulations | IEC 61010-2-030                                      |
|                       | IEC 61869-10                                         |

## 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/2904921>



**EAC**

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

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27210902 |
| ECLASS-15.0 | 27210902 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002048 |
|-----------|----------|

### 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                                | 1621b3ce-130d-440f-a0ed-03afa14f531a |

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