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

2910326

https://www.phoenixcontact.com/us/products/2910326

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

## Commercial data

| | |
|---|---|
| Item number | 2910326 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | C444 |
| Product key | CMMA12 |
| GTIN | 4055626437651 |
| Weight per piece (including packing) | 517.5 g |
| Weight per piece (excluding packing) | 517.5 g |
| Customs tariff number | 85437090 |
| Country of origin | DE |

## 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.

### PACT RCP-D95-10M - Coil

2910323

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



# 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 |

| | |
|---|---|
| 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 * dI/dt |
| Output voltage (sinusoidal, in no-load operation) | 100 mV ($V_{OUT}$ = 2 * π * M * f * 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

Measuring transducer side

| | |
|---|---|
| Connection method | Screw connection |
| Stripping length | 7 mm |
| Screw thread | M3 |
| Conductor cross-section rigid | 0.2 mm² ... 2.5 mm² |
| Conductor cross-section flexible | 0.2 mm² ... 2.5 mm² |
| 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 | 10 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) |

| | |
|---|---|
| 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 |

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2910326

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

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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|---|---|
| UNSPSC 21.0 | 39121000 |

## 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 | 85f2c8df-fdd2-4a22-ba1b-f59c519f6900 |

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