

# Current transformer - PACT RCP-4000A-UIRO-D95 - 2906231

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Set consisting of a 4-way signal conditioner with screw connection technology and a Rogowski coil 300 mm in length/95 mm in diameter for AC current measurement on busbars and power lines. The signal conditioner outputs 8 different standard signals on the output side and has one switching output.



## Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 1 pc          |
| GTIN         |               |
| GTIN         | 4055626048147 |

## Technical data

### Dimensions

|        |          |
|--------|----------|
| Width  | 6.2 mm   |
| Height | 110.5 mm |
| Depth  | 120.5 mm |

### Ambient conditions

|   |   |
|---|---|
| Ambient temperature (operation)           | -30 °C ... 80 °C (Measuring coil)   |
|   | -40 °C ... 70 °C (Measuring transducer)   |
| Ambient temperature (storage/transport)   | -40 °C ... 80 °C (Measuring coil)   |
|   | -40 °C ... 85 °C (Measuring transducer)   |
| Maximum altitude                          | > 4000 m  |
| Permissible humidity (operation)          | 5 % ... 95 % (non-condensing)   |
| Measuring coil degree of protection       | IP67 (not assessed by UL)   |
| Measuring transducer degree of protection | IP20  |
| Noise immunity                            | EN 61000-6-2 When being exposed to interference, there may be minimal deviations. |

### Measuring transducer supply

|                              |                      |
|------------------------------|----------------------|
| Nominal supply voltage       | 24 V DC              |
| Nominal supply voltage range | 9.6 V DC ... 30 V DC |

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## Technical data

### Measuring transducer supply

|                   |   |
|-------------------|---|
| Power consumption | ≤ 1 W (at I <sub>OUT</sub> = 20 mA, 9.6 V DC, 600 Ω load) |
|-------------------|---|

### 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                                    |

### Measuring transducer signal input

|                         |                 |
|-------------------------|-----------------|
| Input signal (at 50 Hz) | 100 mV (1000 A) |
| Input impedance         | > 100 kΩ        |

### 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 mA ... 20 mA (via DIP switch)          |
|                                 | 4 mA ... 20 mA (via DIP switch)          |
|                                 | 0 mA ... 10 mA (via DIP switch)          |
|                                 | 2 mA ... 10 mA (via DIP switch)          |
|                                 | 0 mA ... 21 mA (can be set via software) |
| Voltage output signal           | 0 V ... 10 V (via DIP switch)            |
|                                 | 2 V ... 10 V (via DIP switch)            |
|                                 | 0 V ... 5 V (via DIP switch)             |
|                                 | 1 V ... 5 V (via DIP switch)             |
|                                 | 0 V ... 10.5 V (can be set via software) |
| Load/output load current output | ≤ 600 Ω (20 mA)                          |

### General data, measuring coil

|                                 |                                 |
|---------------------------------|---------------------------------|
| Length of measuring coil        | 300 mm                          |
| Diameter of measuring coil      | 8.3 mm ±0.2 mm                  |
| Length of signal cable          | 3000 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)         |

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## Technical data

### General data, measuring coil

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

|                            |                                    |
|----------------------------|------------------------------------|
| Maximum transmission error | ≤ 0.5 % (From the range end value) |
| Frequency range            | 16 Hz ... 1000 Hz                  |
| Housing material           | PBT                                |
| Test voltage               | 3 kV (50 Hz, 1 min.)               |
| UL, USA/Canada             | UL 508 Listed                      |

### General data

|                         |                 |
|-------------------------|-----------------|
| Standards/regulations   | IEC 61010-1     |
|                         | IEC 61010-2-032 |
| Typical measuring error | < 1 %           |

### Connection data

|                                  |   |
|----------------------------------|---|
| Connection name                  | Measuring transducer side                   |
| Connection method                | Screw connection                            |
| Stripping length                 | 10 mm                                       |
| Screw thread                     | M3  |
| Conductor cross section solid    | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section flexible | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section AWG      | 26 ... 16                                   |
| Torque                           | 0.5 Nm ... 0.6 Nm                           |

### Standards and Regulations

|                               |  |
|-------------------------------|--|
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU            |
| Noise emission                | EN 61000-6-4   |
| Standards/regulations         | IEC 61010-1  |
|                               | IEC 61010-2-032                                      |
| Rated insulation voltage      | 300 V  |
| Pollution degree              | 2  |
| Overvoltage category          | II   |
| Electrical isolation          | Reinforced insulation in accordance with IEC 61010-1 |
| Conformance                   | CE-compliant   |

### Conformance/approvals

|                |              |
|----------------|--------------|
| Designation    | CE           |
| Identification | CE-compliant |

### Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

# Current transformer - PACT RCP-4000A-UIRO-D95 - 2906231

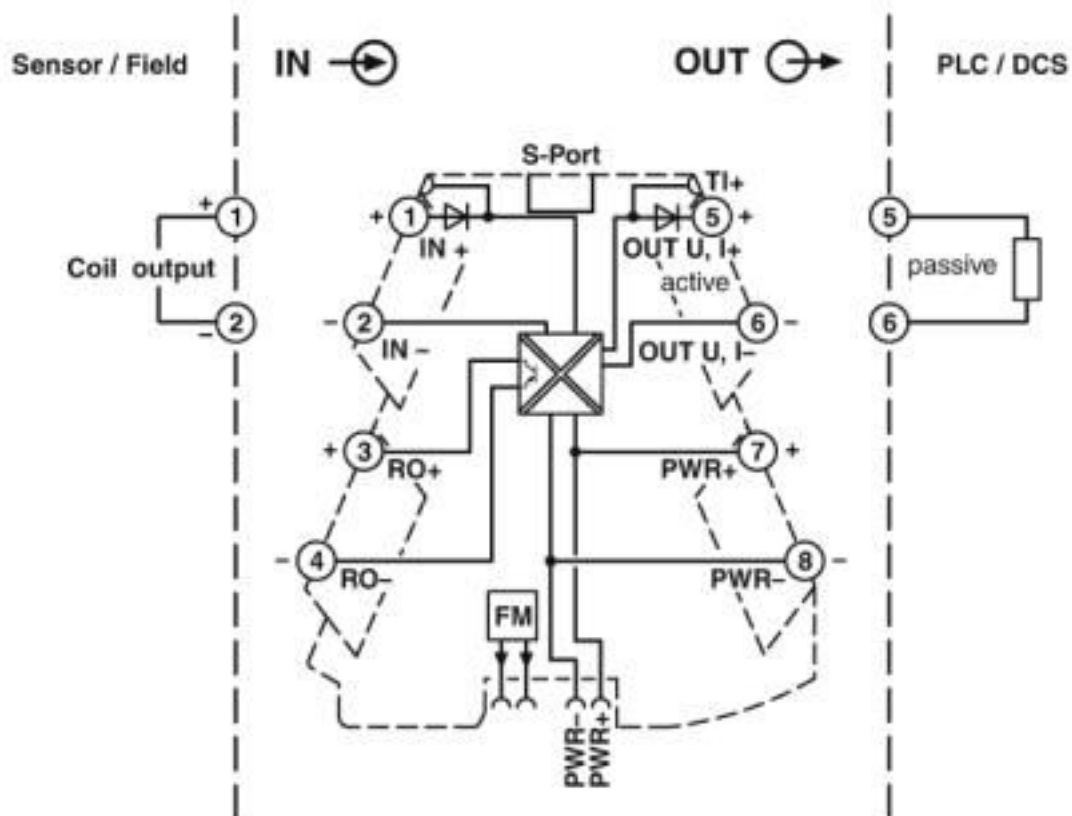
## Technical data

### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50 years  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

Block diagram



## 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 |

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## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC002048 |
| ETIM 4.0 | EC002048 |
| ETIM 5.0 | EC002048 |
| ETIM 6.0 | EC002048 |
| ETIM 7.0 | EC002048 |

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 13.2 | 39121032 |
| UNSPSC 18.0 | 39121032 |
| UNSPSC 19.0 | 39121032 |
| UNSPSC 20.0 | 39121032 |
| UNSPSC 21.0 | 39121032 |

## Approvals

### Approvals

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#### Approvals

EAC

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#### Ex Approvals

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### 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-UIRO-D95 - 2906231

### Accessories

Holder - PACT RCP-CLAMP-5-10 - 2907888



The optional holding device ensures the Rogowski coil is securely seated on busbars that are 5 ... 10 mm thick. During installation, the coil housing is pushed onto the flange of the holding device and snaps in automatically.

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