

PACT RCP-4000A-UIRO-PT-D95 - Current transformer



2906234

<https://www.phoenixcontact.com/us/products/2906234>

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Set consisting of a 4-way signal conditioner with push-in 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.

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2906234 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | C444 |
| Product key | CMMA12 |
| GTIN | 4055626048284 |
| Weight per piece (including packing) | 272 g |
| Weight per piece (excluding packing) | 370 g |
| Customs tariff number | 85437090 |
| Country of origin | DE |

Technical data

Product properties

| | |
|----------------|--------------------------------------------|
| Product type | Current transformer |
| Product family | Rogowski coil and 4-way signal conditioner |

Insulation characteristics

| | |
|----------------------|----|
| Overvoltage category | II |
| 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 |
| Step response (0–99%) | 110 ms |
| Rated insulation voltage | 300 V |

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

| | |
|----------------------------|------------------------------------|
| Maximum transmission error | ≤ 0.5 % (From the range end value) |
| Frequency range | 16 Hz ... 1000 Hz |
| Test voltage | 3 kV (50 Hz, 1 min.) |

General

| | |
|-------------------|--------------------------------------------|
| Can be calibrated | no |
| Converter type | Rogowski coil and 4-way signal conditioner |

Supply: Measuring transducers

| | |
|------------------------------|-----------------------------------------------------------|
| Nominal supply voltage | 24 V DC |
| Nominal supply voltage range | 9.6 V DC ... 30 V DC |
| Power consumption | ≤ 1 W (at I _{OUT} = 20 mA, 9.6 V DC, 600 Ω load) |

Input data

Frequency

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

Signal

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

Current transformer

| | |
|-------------------------------------|--------------------------------------------|
| Configurable/programmable | Via DIP switches |
| Rated frequency: Standard converter | 40 Hz ... 20000 Hz |
| 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 |
| Can be calibrated | no |
| Converter type | Rogowski coil and 4-way signal conditioner |

Output data


Switching: Transistor

| | |
|---------------------------|------------------|
| Number of outputs | 1 |
| Contact switching type | 1 N/O contact |
| Minimum switching voltage | 1 V |
| Maximum switching voltage | 30 V DC |
| Min. switching current | 100 μA |
| Max. switching current | 100 mA (at 30 V) |

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 |
| Configurable/programmable | Yes |
| 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) |
| Max. voltage output signal | ≈  V |
| Current output signal | 0 mA ... 20 mA (via DIP switch) |
| | 4 mA ... 20 mA (via DIP switch) |

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| | |
|---------------------------------|------------------------------------------|
| | 0 mA ... 10 mA (via DIP switch) |
| | 2 mA ... 10 mA (via DIP switch) |
| | 0 mA ... 21 mA (can be set via software) |
| Max. current output signal | 24.6 mA |
| Load/output load voltage output | $\geq 10 \text{ k}\Omega$ |
| Load/output load current output | $\leq 600 \Omega$ (20 mA) |
| Ripple | $< 20 \text{ mV}_{PP}$ |
| | $< 20 \text{ mV}_{PP}$ |

Connection data

Measuring transducer side

| | |
|----------------------------------|---------------------------------------------|
| Connection method | Push-in connection |
| Stripping length | 10 mm |
| Conductor cross-section rigid | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section AWG | 26 ... 12 |

Dimensions

Item dimensions

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

Material specifications

| | |
|------------------|------------|
| Housing material | PC |
| | PBT |
| Coil material | Elastollan |

Environmental and real-life conditions

Ambient conditions

| | |
|-------------------------------------|---------------------------|
| Measuring coil degree of protection | IP54 (not assessed by UL) |
|-------------------------------------|---------------------------|

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| | |
|--------------------------------------------------------|------------------------------------------------------------------------------|
| Measuring transducer degree of protection | IP20 |
| Ambient temperature (operation) (Measuring coil) | -30 °C ... 80 °C (Measuring coil) |
| Ambient temperature (operation) (Measuring transducer) | -40 °C ... 70 °C (Measuring transducer) |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C (Measuring coil) -40 °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 61000-6-2 |
| Note | When being exposed to interference, there may be minimal deviations. |

Noise emission

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

Standards and regulations

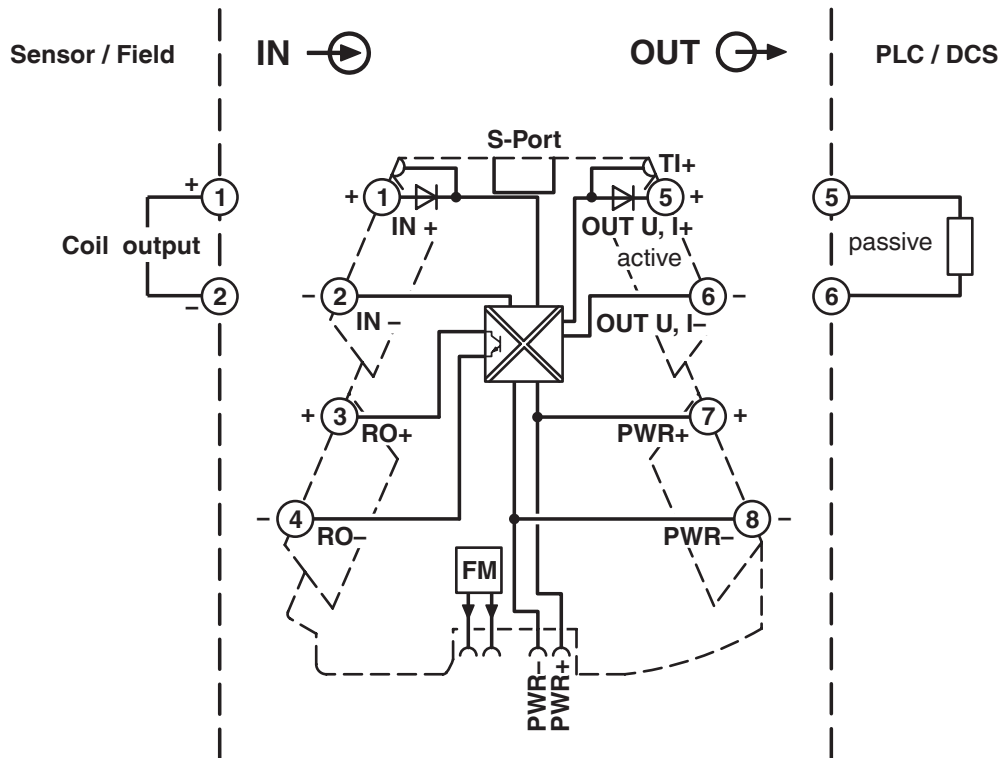
| | |
|-----------------------|------------------------------------------------------|
| Electrical isolation | Reinforced insulation in accordance with IEC 61010-1 |
| Standards/regulations | IEC 61010-2-030 IEC 61869-10 |

Mounting

| | |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

Drawings

Block diagram



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Approvals

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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 | 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) |
| | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7) |
| SCIP | 3e749214-39a9-48f5-a558-77111ddcf51d |

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