RCT rms-3ph - Thin, flexible, clip-around, ac current transducer with true rms measurement

The RCT rms-3ph is a 3-Channel ac current transducer for permanent installation. Simple to install and easy to retrofit it combines the benefits of a thin, flexible, clip-around Rogowski (sense) coil with a signal conditioner providing accurate, true rms measurement, of ac current.

The RCT rms-3ph has an industry standard 4-20mA or 0-5V output making it ideal for process control, status alarming or system monitoring purposes. Typically the RCT rms is used with SCADA systems, PLCs, data loggers.

The RCT rms-3ph is a 3-Channel ac current transducer providing a 4 to 20mA or 0 to 5V output proportional to the true RMS of the primary current and has the advantages of:

- Easy to retrofit
- Simple to install in applications where space is limited
- The size of the Rogowski coil can be specified independently of the primary current
- Does not suffer from magnetic saturation
- Ideal for process control, status alarming or system monitoring in a wide variety of applications, from arc furnaces to power distribution.
**RCTrms-3ph Specifications**

### Features
- **Traceable calibration**: Every unit is supplied with a traceable calibration certificate.
- **No magnetic materials means excellent linearity**: ≤0.1% reading.
- **Fully isolated measurement**: Isolated power supply 2kVdc.
- **Coil rated at 2kVpeak (withstand test is 4kVrms /50Hz/ 60 sec)**.
- **Small DIN rail (or panel mount) enclosure**: UL94 V-0 rated.

### Options
- **Isolated BNC-BNC cable split option**: Between coil and electronics to enable ease of installation e.g. threading through existing conduit. Standard cable permanently fixed.

### Standards and Approvals
- **CE marked**.
- **Complies with EMC EN 61326-1 2006**.
- **Complies with IEC61010-1:2001**.

### Order code RCTrms-3ph
The RCTrms-3ph order code can be generated as follows:

<table>
<thead>
<tr>
<th>Output</th>
<th>Rated current (A)</th>
<th>Cable length (m)</th>
<th>Coil length (mm)</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>420</td>
<td>0 to 5Vdc</td>
<td>50000</td>
<td>Custom lengths</td>
<td>BC BNC Cable Split</td>
</tr>
<tr>
<td>005</td>
<td>4-20mA output</td>
<td>-</td>
<td>-</td>
<td>Custom lengths</td>
</tr>
</tbody>
</table>

For example: RCTrms3ph/420/2000/1/700 has a rated primary current 2000A, 4-20mA Output, 1m cable 700mm coil no options.

### Further information
The RCTms-3ph can be configured to suit a great many applications. If your requirement is outside that listed in this datasheet please contact us to discuss your application.

More detailed technical advice is available at [www.pemuk.com](http://www.pemuk.com).

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**Dimensions**

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**Connections**

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**DC SUPPLY**

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**From the coils**

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**DIN rail mount enclosure**

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**Features**

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**Options**

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**Standards and Approvals**

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**Order code RCTrms-3ph**

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**Further information**

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