

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

The RCTrms-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 RCTrms-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 RCTrms is used with SCADA systems, PLCs, data loggers

The RCTrms-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:

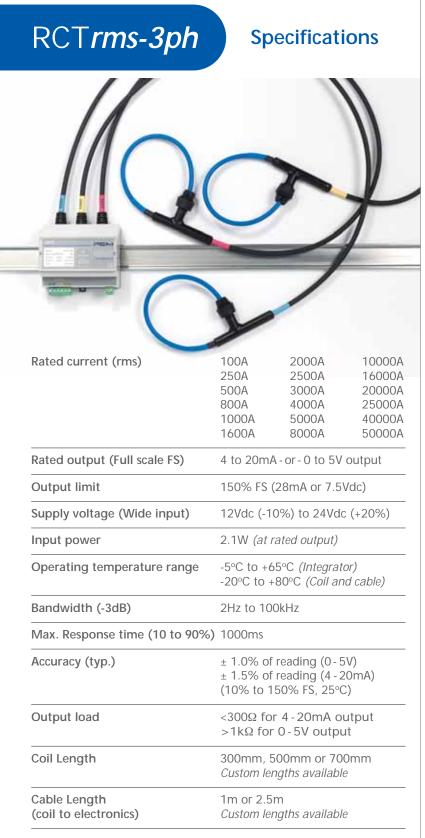
- Easy to retrofit
- Simple to install in applications where space is limited
- The size of the Rogowski coil can be specified independently of the primary current
- Does not suffer from magnetic saturation
- Ideal for process control, status alarming or system monitoring in a wide variety of applications,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

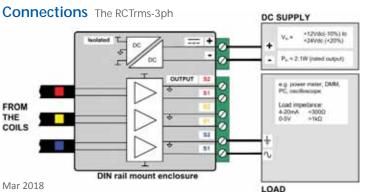


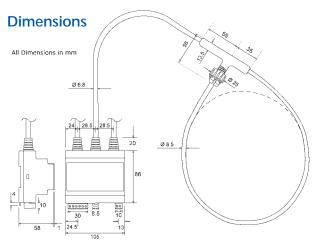
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Features

- · 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:

Output	Rated current (A)	Cable length (m)	Coil length (mm)	Options
420	250	1	300	BC
(4 to 20mA)	500	2.5	500	BNC Cable Split
	-	-	700	
005 (0 to 5Vdc)	- 50000	- Custom lengths	- Custom lengths	

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 RCTrms-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



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