

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

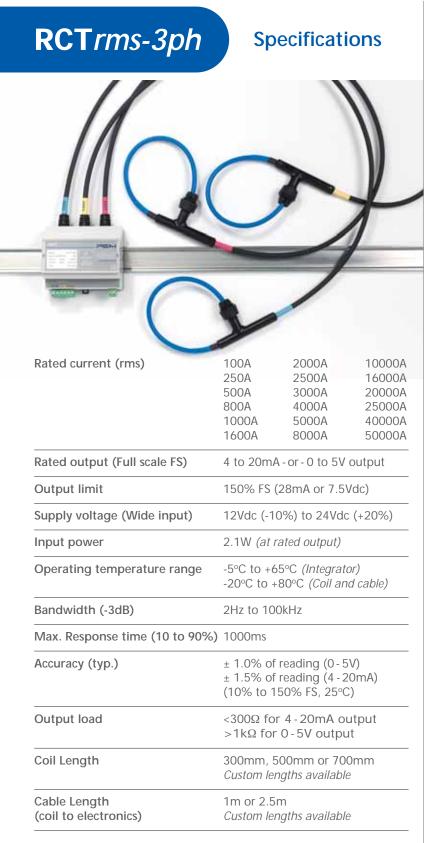
The RCTrms-3ph is a 3-Channel ac current transducer for permanent installation. Simple to install and easy to retrofit it combines the benefits of a thin, flexible, clip-around Rogowski (sense) coil with a signal conditioner providing accurate, true rms measurement, of ac current.

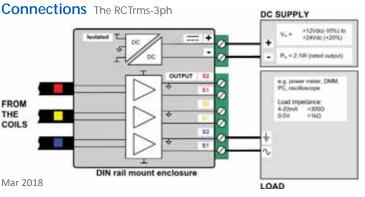
The RCTrms-3ph has an industry standard 4-20mA or 0-5V output making it ideal for process control, status alarming or system monitoring purposes. Typically the RCTrms is used with SCADA systems, PLCs, data loggers

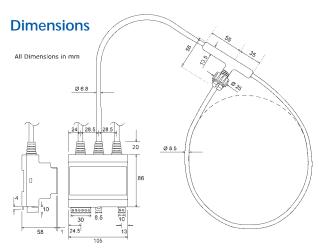
The RCTrms-3ph is a 3-Channel ac current transducer providing a 4 to 20mA or 0 to 5V output proportional to the true RMS of the primary current and has the advantages of:

- 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.









#### **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



Power Electronic Measurements

Gloucester House, 162 Wellington Street, Long Eaton, Nottingham. NG10 4HS. United Kingdom.

- +86 17301947517
- T 400-966-811
- E utest@utestek.com W www.pemnk.com