

# multitek<sup>®</sup>

## MultiCoil

### M240-RCM

Rogowski Coil

#### Description

The M240-RCM Multicoil offers a flexible alternative to conventional solid, and split core, current transformers. With a wide operating range and extremely easy installation, they are perfect for use in retrofitting applications, or when the load simply cannot be disconnected for installation.

Our Rogowski coils offer a flexible, easy to install, and safe method of current measurement from under 30A to over 4000A. The coils can be easily clipped around a cable or busbar like a split-core transformer, but without the possible high-voltage on the terminals associated with an unconnected CT.

The coils can handle large overloads safely, present excellent linearity over their operating range, and can be ordered in multiple lengths to accommodate different sized conductors.

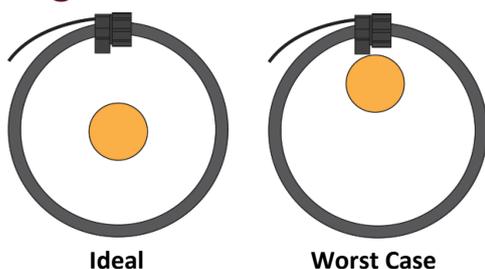
#### Electrical

|                   |                    |
|-------------------|--------------------|
| Measurement Range | 10 - 4000A AC      |
| Accuracy          | < 0.6%             |
| Linearity         | +/- 0.3%           |
| Output            | 200mV @ 4000A 50Hz |
| Output Conductor  | Two core, shielded |
| Frequency Range   | 25Hz - 5kHz        |

#### Mechanical and Environmental

|                               |                                  |
|-------------------------------|----------------------------------|
| Coil Material                 | Dual Wall Polyolefin Tubing      |
| Fitting Material              | ABS Plastic                      |
| Operational Temperature Range | -20°C to +70°C                   |
| Dielectric Strength           | 20kV Around coil                 |
| Coil Diameter                 | 8.6mm                            |
| Cable Length                  | 1m (Others available on request) |

#### Positioning



The position of the conductor inside the coil will affect the accuracy. Deviation from the centre will at worst cause a maximum of 1% deviation when the conductor is placed near the cap of the coil.

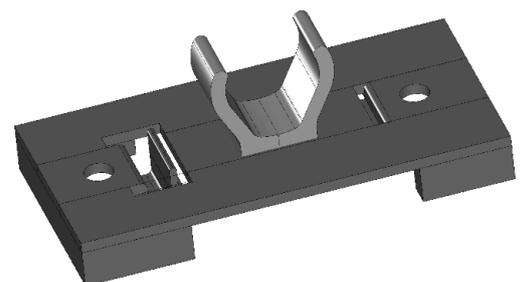


#### Dimensions

| Part No | Window Size | Length |
|---------|-------------|--------|
| W1      | 80mm        | 251mm  |
| W2      | 130mm       | 448mm  |
| W3      | 200mm       | 658mm  |
| W4      | 290mm       | 940mm  |

Custom dimensions available on request.

#### Mounting Bracket



# Products utilising the MultiCore flexible Rogowski coil

## M230-ELR

The M230-ELR Earth Leakage relay provides earth leakage monitoring and protection in both single and 3 phase systems. The M230-ELR uniquely utilises a flexible Rogowski coil for earth leakage measurement. See the M230-ELR brochure for more information.



## M850-LRC

The M850-LRC is a unique combination of a 3 phase digital universal metering system and Rogowski coils. It can be used on any voltage system with a wide range of inputs. It incorporates a universal AC or DC auxiliary power supply. See the M850-LRC brochure for more information.



## M250-TRC

The M250-TRC is a transducer that converts the output from the Multitek M240-RCM Rogowski coil into a proportional DC output signal of 0-1mA, 0-5mA, 0-10mA 0-20mA, 4-20mA, or 0-5V 0-10V DC which can be connected to meters and PLC control systems. Also available with a 0-333mV AC output. See the M250-TRC brochure for more information.



## M260-ARC

The M260-ARC is a transducer that converts the output from the Multitek M240-RCM Rogowski coil into a proportional 1 Amp or 5 Amp AC output which can be fed into conventional power meters, transducers etc. See M260-ARC brochure for more information.



## M270-RCT

The M270-RCT is a 3 phase Power transducer with 3 internal Rogowski coils which will measure any current from 30 Amp to 500 Amp. The M270-RCT is a complete phase multifunction transducer, measuring all electrical parameters and providing two RS485 ports. The Rogowski coil C-Tran saves considerable time and cost in wiring as there are no current transformers to wire, no meter to install, and short voltage connections run straight to the busbar. See the M270-RCT brochure for more information.



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