



Residual current monitoring device

RCM 201-ROGO

Data Sheet

TECHNICAL DATA

RCM 201-ROGO	Technical data	
Dimensions	22.5 x 100 x 110 mm (W x H x D) 0.89 x 3.94 x 4.33 in (w x h x d)	
Weight	Approx. 0.2 kg (0.44 lb)	
Power supply	external, potential separated DC voltage, 24 V _{DC} / 0.1 A	
Transport and storage		
- Storage temperature	-40 °C to +80 °C (-40 °F ... 176 °F)	
- Relative humidity	0 to 90% RH (without condensing)	
Ambient conditions during operation		
- Operating temperature	-20 °C to +60 °C (-4 °F ... 140 °F)	
- Relative humidity	0 to 75% RH (without condensing)	
Operating height	0 .. 2000 m (1.24 mi) above sea level	
Pollution degree	2	
Protection class	IP30	
Connections	Screw terminal (max. 2.5 mm ²)	
Rogowski coil	Mini-Din 4-pole	
Rated response differential current measuring ranges	2.5 A - 125 A 0.5 A - 25 A 0.2 A - 10 A 0.1 A - 5 A	
Current measuring range setting	Manually using the key (> 3 sec) or Modbus (measuring range selection via micro-controller and PGA)	
Signal and alarm output test	Manually using the key (> 6 sec) or Modbus	
Operation and measuring range display	Measuring range display: Measuring range selection: Signal output: Alarm output:	LED green LED yellow LED yellow LED red
Nominal input voltage	100 mV / kA	
Current output	0 - 40 mA ~	
max. current output for load = 0 Ω	70 mA ~	
Overload current (duration)	50 kA	
Overload current (max. 1 sec)	100 kA	
Transmission error	40 Hz ... 60 Hz	< 2%
	60 Hz ... 5 kHz	< 5%
Rated frequency	40 Hz - 5 kHz	
Load (40 mA output)	0 - 10 Ω	
Operating lock	via Modbus	

Outputs potential-free (Opto) (programming via MODBUS)	Transistor output 24 V_{DC} / 100 mA
Alarm output	Alarm normal (NO) Alarm inverted (NC)
Alarm output functions	Residual current level Measurement loop circuit Overtemperature Undervoltage (24 V) Internal error
Response differential current Alarm output	10% - 100% (1% steps)
Response time alarm output	10 sec (1 sec - 255 sec)
Signal output functions	Residual current level normal (NO) Residual current inverted (NC)
Response residual current Signal output	10% - 100% (1% steps)
Signal output response time	5 sec (1 sec - 255 sec)
Hysteresis response differential current level alarm output & signal output	5% (0 - 30%)

Interface	RS485 (electrically isolated)
Communication protocol	MODBUS RTU
Baud rate	9600 - 250000; programmable via Modbus
Address	1 (1 - 255); programmable via Modbus

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Subject to technical alterations

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