

RCM SERIES AC RESIDUAL CURRENT MONITOR

PROTECTION AND CONTROL

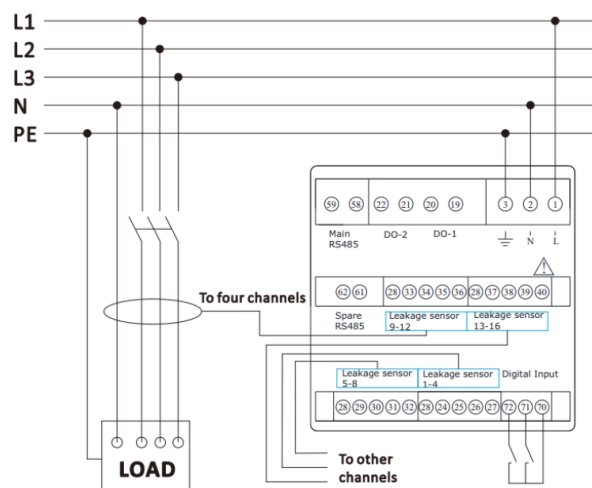


Introduction

The RCM series (residual current monitor) is designed for measuring residual current and operating temperature in TT and TN-S systems. It can receive signals from multiple sensors to detect and assess faults, residual currents, and operating currents in grounded power supplies.

RCM series can be configured with selected current transformers or temperature sensors to detect parameters and set alarm or trip thresholds. RS485 port allow data transmission to SCADA systems.

Wiring Method



Main Features

- Max 100 history events records with date and time stamp.
- Standard RS485 communication port, Modbus-RTU.
- Support manual self-check, optional 2-way passive open input.
- Backlit graphical display (7-segment display) and indicate LEDs.
- Max 16 measuring channels for residual current or temperature input.
- Residual current alarm setting range 300 ~ 1000mA, minimal adjustment step 1mA.
- The temperature alarm setting range 50.0 ~ 100.0°C, minimal adjustment step is 0.1°C; With 2 relay outputs, free to configuration various protection methods.
- Building in buzzer to provide sound alarm, automatically jump to the alarm interface when protection occurs, key buttons can manual silencing and reset.

Application

- Automated industry.
- Electric vehicle charging pile.
- Stationary electrical equipment and systems.
- Power systems and distribution systems.
- Monitoring critical cable and electrical box temperatures.

Ordering Information

Model	Description
RCM-16IN	16 Residual Current sensor
RCM-8IN8T	8 Residual Current sensor, 8 Temperature sensor
RCM-8IN	8 Residual Current sensor
RCM-4IN4T	4 Residual Current sensor, 4 Temperature sensor

Technical Characteristics

Electrical characteristics	
Power supply	85~265 VAC/DC
Consumption	<5 VA
Residual current accuracy	1%
Temperature accuracy	±2°C
Data refresh rate	1 Sec
Binary inputs	Passive node, isolation voltage 2000VAC
Relay output	AC 250V/5A or DC 30V/5A, 2500V opt coupler isolation
Comm port	RS485 Modbus-RTU protocol, baud rate up to 19200bps
Others	
Physical dimension	96*96*75mm (W*H*D)
Protection class	IP20
Weight	0.55kg
Working environment	-10~55°C
Measurement category	CAT-III, pollution class 2
Insulation capacity	> AC 2kV signal power output
Reference standard	IEC 61000-4-2,class III IEC 61000-4-3,class III IEC 61000-4-4,class IV IEC 61000-4-5,class IV IEC 61000-4-6,class III IEC 61000-4-8,class III IEC 61000-4-11,class III