RMIO

Remote Module I/O

Remote Monitoring of RTD's for Metering and Protection

Key Benefits

- RTD temperature monitoring for the Multiline SR 339 Motor Protection System
- Designed for close mounting to motor and reducing RTD wiring
- Provides overtemperature protection

Application

- Connect to the Multilin SR 339 Motor Protection System to provide remote RTD protection.

Features

Protection and Control
- RTD Overtemperature

Monitoring & Metering
- RTD Temperature

User Interface
- Networking via RS485 Serial Port
- CANBUS protocol

EnerVista™ Software
- Enervista™ Software- an industry-leading suite of software tools that simplifies every aspect of working with Multilin devices.

Digital Energy
Multilin

Protection & control

The Remote I/O Module provides RTD temperature metering capabilities for the Multilin SR 339 Motor Protection System. The remote RTD Module provides additional protection to motor applications by monitoring the temperature of key components in the equipment.

All RTD's settings are completely configurable via the SR 339 Motor Protection System and via GE Multilin's EnerVista Software programs.

Metering and Monitoring

The Remote I/O Module monitors up to 12 RTD's with all metered values accessible via the SR 339 Motor Protection System.

Key Features

The Multilin Remote I/O Module has been designed to be mounted close to the motor to reduce the length of the RTD cables and the costs associated with the cables, and the labor to install the cables. The Remote I/O module can then be connected to the SR 339 Motor Protection System via one RS485 cable that can then monitor the RTD's from a remote location and use this temperature information for protection and metering purposes.

- CANBUS Protocol
- 12 three-wire shield RTD inputs
- User configurable RTD programming
- AC/DC universal power supply
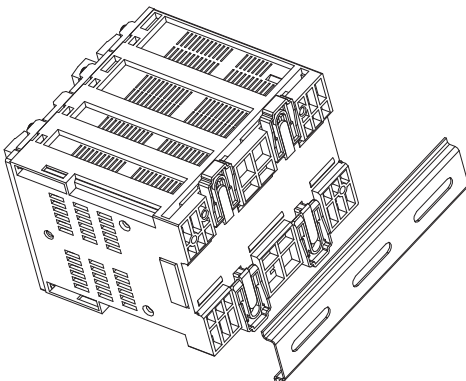
Technical Specifications

POWER SUPPLY

POWER SUPPLY	
Nominal	120 to 240 V AC
	125 to 250 V DC
Range	60 to 300 V AC (50 and 60 Hz)
	84 to 250 V DC

ALL RANGES	
Power consumption	16 W typical, 25 W maximum

RTD INPUTS	
Sensor type	Three-wire RTD (100 ohm Platinum)
Sensing current	5 mA
Accuracy	±3°C

RTD PROTECTION	
RTD types	three-wire (100 ohm Platinum)
Range	−50 to 250°C in steps of 1
Hysteresis	2°C

TESTING AND CERTIFICATION

CERTIFICATION	
ISO	Manufactured under an ISO9001 registered program
CE	EN60255-5, EN61010-1, EN50263, EN61000-6-2, EN61000-6-4
cULus	UL508, UL1053, C22.2.No 14

PHYSICAL SPECIFICATIONS

DIMENSIONS	
Size	Base: 120 mm (W) × 90 mm (H) × 113 mm (D) [+ terminals 10mm]
	Expansion: 62 mm (W) × 90 mm (H) × 113 mm (D)
	GCP: 153 mm (W) × 102 mm (H) × 35 mm (D)
	BCP: 75 mm (W) × 75 mm (H) × 31 mm (D)
Weight (Base)	0.75 kg

ENVIRONMENTAL

OPERATING ENVIRONMENT	
Ambient operating temperature:	-20° to 70°C (base unit and basic control panel)
	-20° to 50°C (graphical control panel)
	-40° to 90° ambient)
Humidity	up to 95% non-condensing
Polution degree	2
IP rating	IP20 (base unit), IP54 (control panel)

Mounting
DIN Rail Mounting

Inputs

Switch Mode Power Supply:
60-300VAC, 84-250VDC
DC Power Supply, 24VDC

Communication Indication:
Tx and Rx indication to ensure active communications

RTD Modules
Each RTD Module contains three, three wire 100 Ohm Platinum RTD's (max. 12 RTD's)

Communication Connection:
CANBUS communication ports for connection to the Multilin SR 339 Motor Protection System