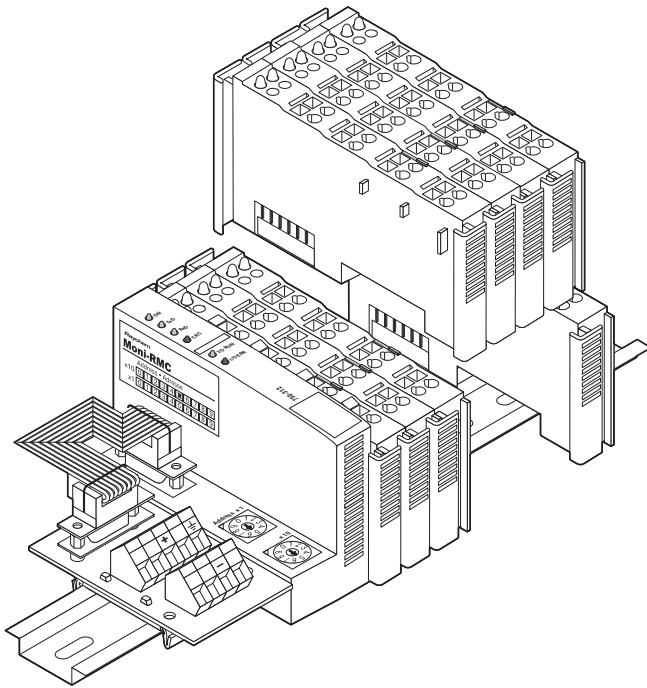


Heat-tracing remote module for control

PRODUCT OVERVIEW



Raychem remote modules for control (RMC) provide multiple relay outputs for switching heating cable circuits controlled by the Raychem NGC User Interface Terminal (NGC-UIT). RMC units are modular and may be configured with 2 to 40 relay outputs. A single Raychem NGC-30-UIT can communicate with up to 10 RMC via a single, twisted pair RS-485 cable to provide distributed control of up to 260 heating cable circuits.

Control and monitoring

The Raychem NGC-30 controls and monitors multiple heat-tracing circuits based on pipe or ambient temperatures. These temperatures can be collected locally by Raychem remote monitoring modules (RMM3) connected on the same RS-485 network. Based on temperature inputs from the RMM3, the Raychem NGC-UIT determines which heating cable circuits are to be energised and sends this information to RMC, which then turn on or off the heating cable power contactors. Because temperature inputs and control outputs are located near equipment to be sensed or controlled, wiring costs are reduced significantly.

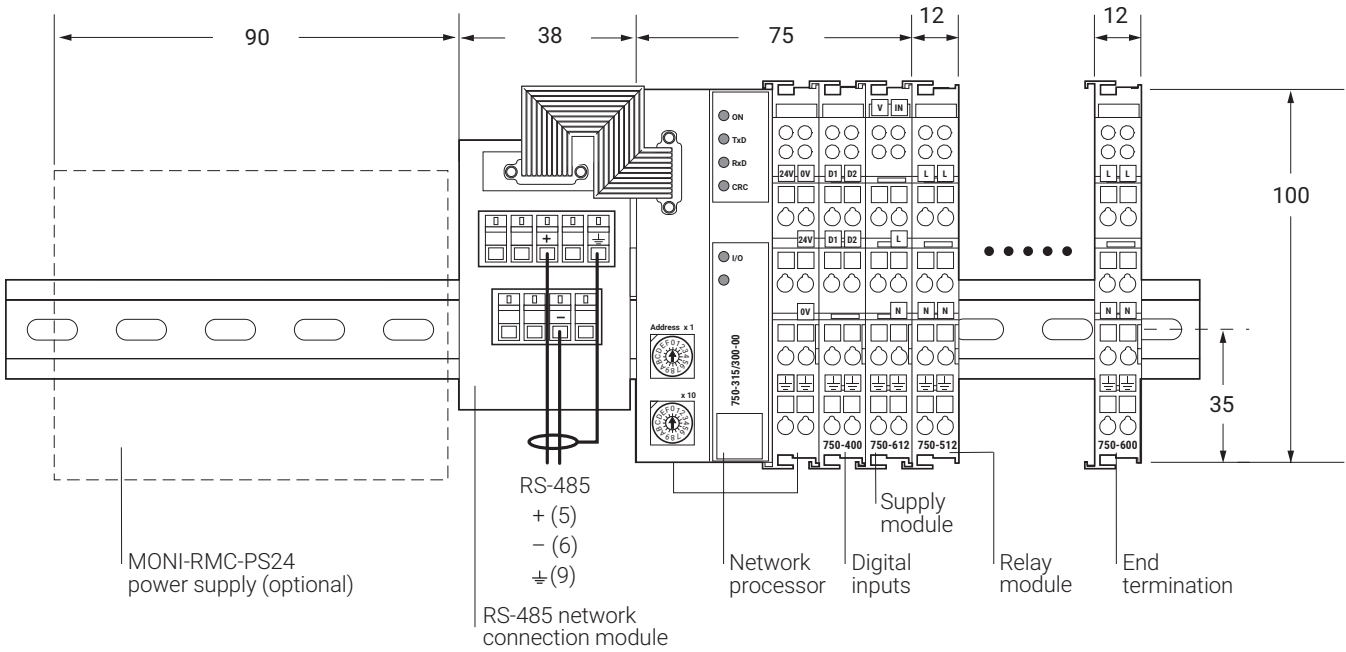
Alarm inputs

Each RMC unit includes two inputs to monitor the status of circuit breakers or power contactors. For example, one input may be used for a common circuit breaker trip alarm, providing an alarm indication at the Raychem NGC-UIT if any circuits fail due to earth fault or overcurrent events. Alarms may be reported remotely through an alarm relay in the Raychem NGC-UIT or through an RS-485 connection to Raychem Supervisor. Up to 20 MONI-RMC-2DI 2 channel digital input modules can be added if required.

Configurations

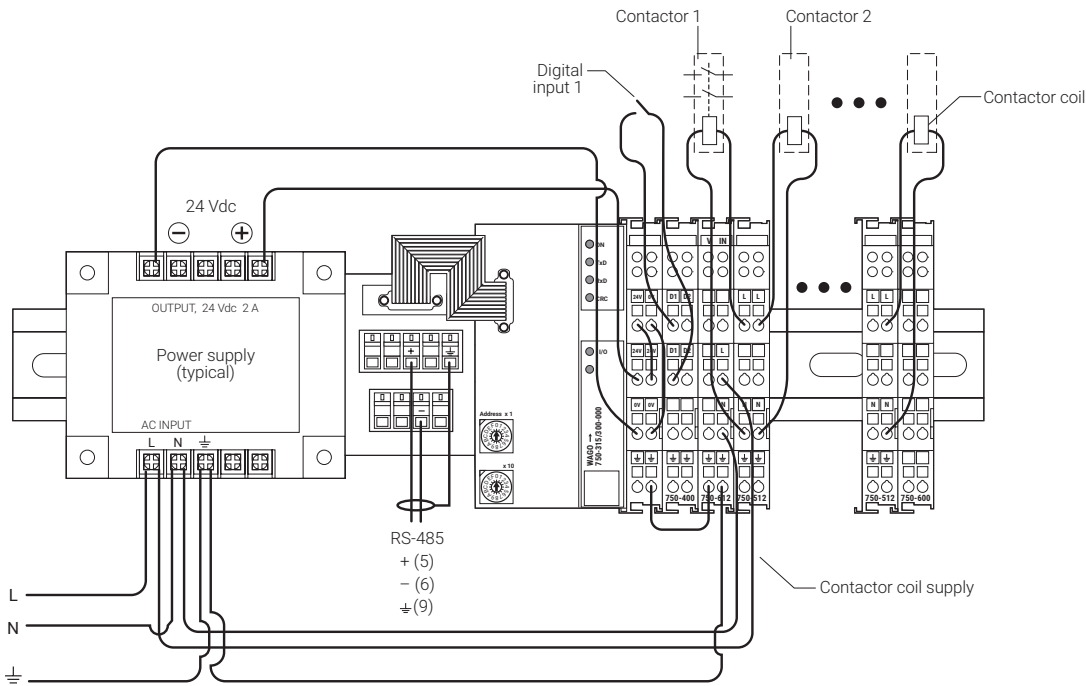
The RMC are modular, electronic devices that mount on a DIN 35 rail. RMC units must be installed in panels or enclosures suitable for the area classification and environment. For each RMC installation, purchase one MONI-RMC-BASE kit, which includes the network processor, digital inputs, and end terminator; one MONI-RMC-PS24 24-Vdc power supply; and up to 16 MONI-RMC-2RO 2-channel relay output modules, as required.

Connection details



PRODUCT SPECIFICATIONS

Dimensions (in mm)



Technical details

Ambient operating temperature range 0°C to 55°C

Ambient storage temperature range -40°C to 70°C

Relative humidity Max. 95%, noncondensing

Protection IP2X per IEC 529

Supply voltage 24 Vdc

Supply current < 2 A

Relay outputs

Quantity per RMC	1 to 20 two-channel modules (2 to 40 relay outputs)
Total relay outputs via RMCs	260
Type	Mechanical, normally open, non-floating
Voltage, maximum	250 Vac, 30 Vdc
Current, maximum	AC/DC 2 A
Maximum power	60 W/500 VA (resistive)
Isolation	4 kV
Life (operations)	1 x 10 ⁶ at 0.35 A to 0.2 x 10 ⁶ at 2 A
Connection terminals	0.08 mm ² –2.5 mm ² , Spring-type

Supply module

Voltage	230 Vac/dc
Current	10 A
Connection terminals	Spring-type for cables from 0.08 mm ² to 2.5 mm ²

Digital inputs

Quantity per RMC	Up to 20 two-channel modules (2 to 40 digital inputs)
Type	Solid-state, 24 Vdc source
Current consumption	5 mA
Isolation	500 V
Connection terminals	0.08 mm ² –2.5 mm ² (Spring-type)

Communication to Raychem NGC-UIT

Type	RS-485
Connection terminals	0.08 mm ² to 2.5 mm ² (Spring-type)
Cable	1 shielded twisted pair
Length	1200 m max.
Quantity	Up to 247 RMC may be connected to one Raychem NGC-UIT
Address	Switch-selectable on RMC, 10 addresses, 1-99

APPROVALS

For use in ordinary area.

Product certification



ORDERING INFORMATION

	Part Description	Product Number	Weight
Remote module for control (RMC)			
Base unit*	MONI-RMC-BASE	309735-000	0.5 kg
Two-channel relay output module**	MONI-RMC-2RO	920455-000	0.05 kg
Two-channel digital input module***	MONI-RMC-2DI	062367-000	0.05 kg
24 Vdc power supply	MONI-RMC-PS24	972049-000	0.7 kg

* Purchase one base for each RMC installation. Includes network processor, two digital inputs, end termination, and RS-485 connection module with ribbon cable.

** Purchase one module for each set of two relay outputs required. Minimum of one module (2 relay outputs), maximum of 20 (40 relay outputs) per RMC base.

*** Purchase one module for each set of two digital inputs required. Minimum of one module (2 digital inputs), maximum of 20 (40 digital inputs) per RMC base. Additional module for each pair of digital inputs required. One MONI-RMC-2DI module is included in each MONI-RMC-BASE unit

North America

Tel +1 800 545 6258
info@chemelex.com

Latin America

Tel +1 713 868 4800
info@chemelex.com

Europe, Middle East, Africa, India

Tel +32 16 213 511
Fax +32 16 213 604
info@chemelex.com

Asia Pacific

Tel +86 21 2412 1688
infoAPAC@chemelex.com



Raychem Tracer Pyrotenax Nuheat