



PRODUCT DESCRIPTION

nVent RAYCHEM SBS-R-GM control panels provide an integrated solution for the control of RAYCHEM self-regulating heating cables for roof & gutter de-icing systems.

The control panels comprise the energy efficient, multi-sensor EMDR-10 control. The control panels monitor the ambient temperature and moisture and switch on the de-icing system only when required.

The SBS-R-GM panels are available in 1 and 3 heating circuit switching versions, with either 10A switching capability or 16A depending on circuit length requirements.

The panels also include electrical circuit protection devices (C-type circuit breakers and RCD protection) for safety, peace of mind, and electrical regulation compliance.

ADVANTAGES

- Integrated electrical safety and control, device for single/multiple heating circuits from the heat tracing manufacturer.
- Designed specifically for RAYCHEM self-regulating heating cables.
- Multi-sensor control system for energy efficiency optimisation.
- Everything in a single control panel. Simply add a power supply.
- Complete warranted solution from the manufacturer.

CONTROLLER TECHNICAL DATA

| | |
|-------------------|---|
| Control | RAYCHEM EMDR-10 control device, pre-installed and electrically connected. |
| Supply voltage | 230Vac 50/60Hz |
| Set temp. | Programmable by the user. (Factory set to +2°C.) |
| Sensor (Ambient) | PTC (FL 103), IP54, Exposure range: -30°C to +80°C. |
| Sensor (Moisture) | PTC type. (Exposure range: -30°C to +65°C.) |

RELATED PRODUCTS

The SBS-R-GM control panels are compatible with the RAYCHEM Roof & gutter heating cables:

- GM-2X
- GM-2XT (for bitumen roofs & gutters.)
- FroStop-Black

The recommended connection components are RAYCHEM RayClic fast connection devices. (Note: Not for use with FroStop-Black.)

PANEL TECHNICAL DATA

| | |
|-----------------------|--|
| Control | EMDR-10 |
| Panel Colour | Light Grey |
| Protection Class | IP55 |
| Installation location | Indoor |
| Ambient Temperatures | +5°C to +35°C. |
| Cable Apertures | Plastic panel with metric Breakaway apertures. |
| Power Supply | 230Vac 50Hz, or 400V/230Vac, 50Hz, 3PH/N/PE |
| Panel Material | Plastic Enclosure. |
| Main switch | 40A. |
| RCD | 30mA. |
| Line circuit breakers | 10A or 16A (Depending on model) Type C characteristic per heating circuit. |
| Approvals | CE (Approved to IEC61439-1). |

ENCLOSURE TYPE

| | | SBS-R-GM-1x10A | SBS-R-GM-3x10A | SBS-R-GM-1x16A | SBS-R-GM-3x16A |
|----------------------------|-------------|----------------|----------------|----------------|----------------|
| Number of Heating Circuits | | 1 | 3 | 1 | 3 |
| Dimension | Width (mm) | 418 | 310 | 418 | 310 |
| | Height (mm) | 436 | 586 | 436 | 586 |
| | Depth (mm) | 148 | 148 | 148 | 148 |
| Electrical Protection | Amps | 1 x 10A | 3 x 10A | 1 x 16A | 3 x 16A |
| Weight (kg) | | 6 | 7.4 | 6 | 7.4 |

ORDER REFERENCE

| Product Name | Order Reference | Description |
|----------------|-----------------|---|
| SBS-R-GM-1x10A | 1244-016632 | Roof & Gutter De-icing control panel for 1 circuit of GM self-regulating heating cable (Max. Circuit: 10Amps) |
| SBS-R-GM-3x10A | 1244-016633 | Roof & Gutter De-icing control panel for up to 3 circuits of GM self-regulating heating cable (Max. Circuit: 10Amps) |
| SBS-R-GM-1x16A | 1244-016634 | Roof & Gutter De-icing control panel for 1 circuit of GM self-regulating heating cable (Max. Circuit: 16Amps) |
| SBS-R-GM-3x16A | 1244-016635 | Roof & Gutter De-icing control panel for up to 3 circuits of GM self-regulating heating cable (Max. Circuit: 16Amps.) |

INSTALLATION INSTRUCTIONS

Complete panel wiring information and schematics are provided with the product. All electrical installations must be carried out by an approved electrician in compliance with local electrical requirements and norms.

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