



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 warrantied 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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