

## **Raychem** SBS-R-GM



### **PRODUCT DESCRIPTION**

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.



[WWW.PENTAIRTHERMAL.COM](http://WWW.PENTAIRTHERMAL.COM)

**UNITED KINGDOM**

Tel: 0800 969 013  
Fax: 0800 968 624  
[salesthermalUK@pentair.com](mailto:salesthermalUK@pentair.com)

**IRELAND**

Tel: 1800 654 241  
Fax: 1800 654 240  
[salesIE@pentair.com](mailto:salesIE@pentair.com)

**SOUTH EAST ASIA**

Tel: +65 67685800  
Fax: +65 67322263

**AUSTRALIA**

Tel: +61 2 97920250  
Fax: +61 2 97745931  
[ausalesthermal@pentair.com](mailto:ausalesthermal@pentair.com)

**INDIA - NOIDA**

Tel: +91 120 464 9500  
Fax: +91 120 464 9548  
[PTMinfome@pentair.com](mailto:PTMinfome@pentair.com)

**INDIA - MUMBAI**

Tel: +91 22 6775 8800/01  
Fax: +91 22 2556 1491  
[PTMinfome@pentair.com](mailto:PTMinfome@pentair.com)

**UAE**

Tel: +971 4 378 1700  
Fax: +971 4 378 1777  
[PTMinfome@pentair.com](mailto:PTMinfome@pentair.com)

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