

### CONTROLLER FOR ICE AND SNOW PREVENTION



#### PRODUCT DESCRIPTION

The nVent RAYCHEM RAYSTAT-M2 provides economical control of ice and snow melting applications in small and medium sized areas. With focus on minimising power consumption, ease of installation and use, the RAYSTAT-M2 keeps ground surfaces or roof & gutters free of ice and snow.

- Economical control of ice and snow melting in the outdoor area and gutters
- Detection of temperature and moisture
- Electronic on/off control up to 3,600W
- For surface snow melting or roof & gutter de-icing
- Easy to install
- Adjustable moisture sensitivity
- Possibility to activate forced heat.

#### PRODUCT FEATURES

Utilising temperature and moisture sensor inputs, the RayStat-M2 ensures economical control when keeping outdoor areas or roofs free of ice and snow. The moisture sensor is installed in the surface of the outdoor area or placed in the gutter. As soon as moisture and cold temperature (below the setpoint) is detected, the RAYSTAT-M2 controller activates the snow melting system. Once the sensing parameters are no longer met (no moisture detected or temperature above the setpoint), the thermostat de-energises the heating circuit. It is also possible to set an "Over-run" cycle to ensure heat is maintained for a user specified period of time.

#### PRODUCT INFORMATION

	1244-016962	<b>RAYSTAT-M2</b>	Thermostat with 16A potential-free output relay
	1244-016964	<b>RAYSTAT-M2-G-SENSOR</b>	Ground sensor for detection of temperature and moisture, 10m supply cable
	1244-016965	<b>RAYSTAT-M2-R-SENSOR</b>	Gutter sensor for detection of moisture, 10m supply cable
	1244-016963	<b>RAYSTAT-M2-A-SENSOR</b>	Ambient temperature sensor

## FOR GUTTER DE-ICING:

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### RAYSTAT-M2, RAYSTAT-M2-R-SENSOR and RAYSTAT-M2-A-SENSOR:



The RAYSTAT-M2-R-SENSOR is designed for mounting in gutters and drain pipes. RAYSTAT-M2-R-SENSOR detects moisture, while RAYSTAT-M2-A-SENSOR detects temperature. The snow melting system will be energised only when the outdoor temperature is below the selected setting and moisture is detected on the RAYSTAT-M2-R-SENSOR.

## FOR SURFACE SNOW MELTING:

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### RAYSTAT-M2 and RAYSTAT-M2-G-SENSOR



The sensor type RAYSTAT-M2-G-SENSOR is designed for embedding into the surface of the outdoor area. RAYSTAT-M2-G-SENSOR detects ground temperature and moisture. The snow melting system will be energised only when the surface temperature is below the selected setting and snow or ice occurs on the sensor.

#### RAYSTAT-M2

DIN-rail mounting in an approved enclosure. (The controller is also provided in the nVent RAYCHEM SBS-R control panels.)

#### Mounting of ground sensor RAYSTAT-M2-G-SENSOR:

Install where the snow and ice problems typically occur. The sensor is mounted on a hard foundation, in a concrete base, with the top of the sensor flush with the surface. Where an asphalt surface is used, it should be placed in a concrete recess. The sensor cable must be mounted in accordance with local regulations, and the use of cable conduit is recommended.

#### Mounting of gutter sensor RAYSTAT-M2-R-SENSOR:

Install in the gutter or drain pipe on the sunny side of the building. The contact point of the sensor must be placed in the direction of flow of the melting water.

#### Mounting of outdoor sensor RAYSTAT-M2-A-SENSOR:

Install under the roof eaves on the north side of the building.

## TECHNICAL SPECIFICATION

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Supply voltage:	230V ±10, 50/60 Hz
Output relay:	16A potential-free 3600W
On / off differential	0,4°C
Setting of temperature	0-10°C
Setting of after run time	0-5 hours

#### LEDS indicates:

Green	Power on
Red – MOIST led	moisture is detected
Red – TEMP led	Outdoor temperature is below setpoint
Red – RELAY led	Heater circuit is activated

Power consumption	3VA
Housing	IP20
Approvals	CE certified. IEC EN 60730-1 and 60730-2-9.

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