

DIN RAIL MOUNTABLE THERMOSTAT FOR ROOF & GUTTER DE-ICING AND SNOW MELTING HEATING CABLES



PRODUCT OVERVIEW

The nVent RAYCHEM GM-TA thermostat is designed for operation with RAYCHEM Roof & Gutter Snow melting & De-icing system for small gutter lengths up to 30 m.

It is an electrical thermostat with double temperature setpoint.

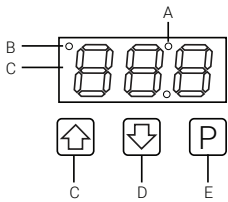
It is compatible with RAYCHEM self-regulating heating cable

- GM-2X
- GM-2XT
- Frostop-Black
- Or RAYCHEM Constant Wattage heating cable GM-2CW

PRODUCT FEATURES

- Electrical temperature control with ambient temperature sensor (sensor for outdoor installation)
- DIN-Rail mountable (35 mm) for panel installation
- Easy-to-read digital display for temperature and alarm
- Double temperature set points
- Post heating time from 30 min up to 3 hours selectable
- Read-out of actual ambient temperature

DISPLAY



- A-LED Display (Temperature and Alarm)
- B-Heating system ON
- C-Increase value (change of temperature)
- D-Reduce value (change of temperatures)
- E-Program mode selection ON/OFF and parameter settings

TECHNICAL DATA

Supply voltage	230 Vac, +10%/–10%, 50 Hz
Relay output heating cable	230 Vac, max 16 A
Relay output alarm	230 Vac, max 8 A, switch-over contact, potential-free
Power consumption	max. 5 VA
Terminal size	2,5 mm ² , screwed
Parameter settings	Programmable in non-volatile memory
Storage temperature	–20°C to +50°C
Switching hysteresis	+/-1K
Ambient temperature-range operation	-25°C to +40°C
Accuracy	+/- 1,5 K including temperature probe

PROGRAMMABLE PARAMETER

		Default Factory settings
2 temperature setpoints	Range I: 0°C to +6°C, editable Range II: -25°C to -5°C	2°C Default value -10°C
Post heating time	0 to 3 hours	0,5 hours
Sensor adjustment	-10 K to +10 K;	0

ERROR MESSAGES BY MONITORING

Sensor	Sensor short circuit Sensor open loop
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HOUSING

Color	Black with red front
Dimensions	52,5 mm x 87, 5 mm x 58 mm (H/W/D)
Material	ABS
IP rating	IP 20 (IP 30 in panel)
Installation	DIN rail mountable 35 mm
Minimum installation temperature	5°C

TEMPERATURE SENSOR

Type	Sensor type 202AT +/-1% NTC 2 KOhm@25°C
Enclosure material	Polycarbonate
IP rating	IP 65
Enclosure dimensions	Width: 50 mm; Depth: 26 mm, length 52 mm
Cable diameter	4 mm
Exposure temperature	-30°C to +40°C
Accuracy	+/-1 K

APPROVALS

CE;
RoHS & REACH

SYSTEM INFORMATION

RAYCHEM GM-TA thermostat is designed for use with Heating cables GM-2X(T), Frostop - Black , GM-2CW.
Maximum circuit length is limited to 30 m.

ORDERING INFORMATION

Product: GM-TA
PCN: 1244-017783

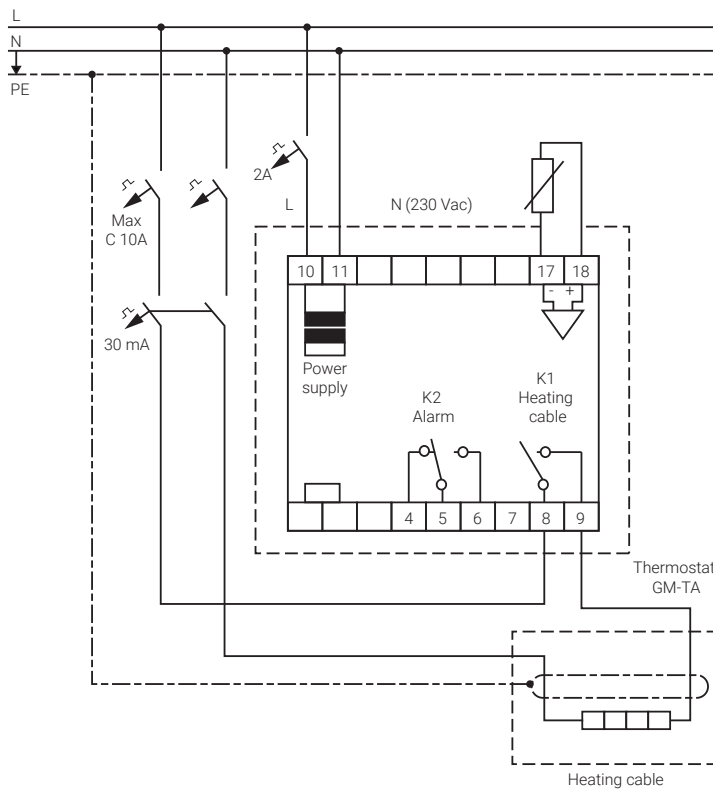
ACCESSORIES



Spare part: sensor type 202AT +/-1% NTC 2KOhm@25°C, PCN 1244-017965

GM-TA-OUTDOOR Box (PCN: 1244-017966) Plastic enclosure for outdoor–installation of GM-TA Thermostat for roof & gutter application

ELECTRICAL SCHEME



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