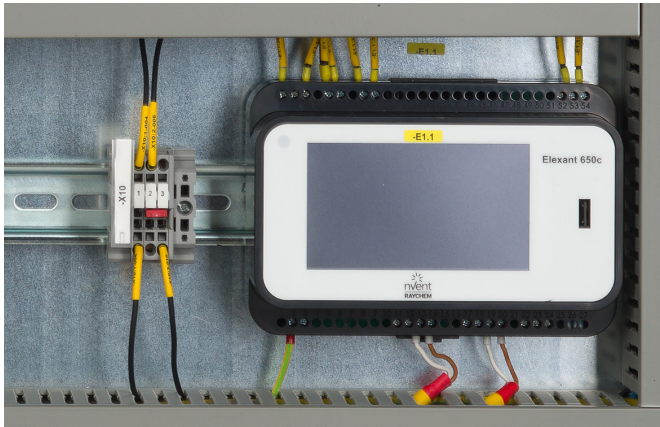


## DIN-MOUNTED ELECTRONIC CONTROLLER FOR ROOF & GUTTER DE-ICING AND SURFACE SNOW MELTING SYSTEMS



Next generation **DIN-mounted touch screen** heat tracing controller for **dual independent heating zone** control.

nVent RAYCHEM Elexant 650c-Modbus is an electronic controller with color touch display, advanced alarms and the capability of switching 1 (standard operation) or 2 (2<sup>nd</sup> heating zone: optional) independent heating zones via external contactors.

The unit is to be mounted in DIN-rail panels for surface snow melting, roof and gutter de-icing applications of nVent RAYCHEM heating cables.

Enhanced, **more sensitive and reliable sensors** shall be added, depending on the desired application.

The Elexant 650c-Modbus controller allows **Modbus connectivity** for remote monitoring, configuration, and integration in a Building Management System (BMS).

### FEATURES

- Intuitive set-up and programming of the unit with a 4.3" color touch screen
- Moisture and temperature control of roof & gutter de-icing and surface snow melting systems
- Controls 2 independent heating areas
- Temperature with moisture sensing for enhanced energy savings
- Alarm relay with change over contact to signal power, sensor or communication problems (Modbus)
- Ambient temperature monitoring with high and low temperature alarm
- Off-site configurable - can be set up prior to final installation
- The Elexant 650c-Modbus controller is equipped with a RS485 port for Modbus communication to a BMS system, which can be used for configuration, monitoring and alarm purposes
- Ice rain feature - preheating the surface to prevent the issue of freezing rain (for surface snow melting application only)

### ROOF & GUTTER DE-ICING APPLICATION

For roof and gutter de-icing applications, the nVent RAYCHEM Elexant 650c-Modbus controller should be used in conjunction with the newly designed, robust nVent RAYCHEM E650C-R sensor. This brass sensor is fully encapsulated, features an extremely compact design, and includes an axial cable outlet and threaded bolt for secure installation in the desired position.

Sensor shall be purchased separately.



## SNOW MELTING APPLICATION

For snow melting applications, the nVent RAYCHEM Elexant 650c-Modbus controller, combined with the new nVent RAYCHEM E650C-G ground sensor, offers robust anti-icing and moisture measurement capabilities in outdoor areas with foot or vehicle traffic.

The robust sensor, made of brass and fully encapsulated, has a very low installation height, making it particularly suitable for staircases, terraces, and similar locations.

Sensor shall be purchased separately.



## ORDERING DETAILS

Name	PCN	Description
ELEXANT 650c-Modbus	1244-022835	Controller for surface snow melting and roof & gutter applications with Modbus
E650C-R	1244-022795	Moisture and temperature sensor for roof & gutter de-icing, 6 m, with zinc mounting bracket
E650C-G	1244-022794	Moisture and temperature sensor for surface snow melting, 20 m with housing and protective cover
E650C-G-HOUSING	1244-022796	Spare housing and protective cover for surface snow melting sensor
E650C-R-BRACKET-CU	1244-022799	Spare mounting bracket for roof and gutter de-icing sensor, copper
E650C-R-BRACKET-ZN	1244-0227998	Spare mounting bracket for roof and gutter de-icing sensor, zinc
SM-TF130-DI	1244-022836	External module for the ice rain feature and panel alarm digital input
GM-SEAL-02	1244-012310	Adhesive for roof and gutter brackets, polyurethane glue, 300 ml bottle
GM-TA-AS	1244-017965	Spare ambient NTC sensor in enclosure
SENSOR-NTC-10M	1244-015847	Spare ambient NTC sensor - 10 m
PB-POWERBANK	1244-020365	Powerbank for pre-configuration of Elexant 650c-Modbus controller without mains voltage

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