# Elexant 650c-Modbus

**Raychem**

## Din-Mounted Electronic Controller For Roof & Gutter De-Icing And Surface Snow Melting Systems



Elexant 650c

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

Raychem Elexant 650c-Modbus is an electronic controller with color touch display, advancedalarms and the capability of switching 1 (standard operation) or 2 (2nd 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 Raychem heating cables.

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

The Elexant 650c-Modbus 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" colour 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 temperaturealarm
- Offsite configurable - can be set up prior to final installation
- The Elexant 650c-Modbus 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 & gutter de-icing application Raychem Elexant 650c-Modbus shall be used with a new designed, robust sensor Raychem E650C-R made of brass, fully encapsulated. Extremely compact design with axial cable outlet and threaded bolt for fixing in the desired position.

Sensor shall be purchased separately.

chemelex

## SNOW MELTING APPLICATION

For snow melting application Raychem Elexant 650c-Modbus shall be used with a new designed, robust ground sensor nVent RAYCHEM E650C-G for combined measurement of temperature and moisture in outdoor areas with foot or vehicle traffic. Robust version made of brass, fully encapsulated. Very low installation height, so particularly well suited to staircases, terraces, etc.

Sensor shall be purchased separately.

## ORDERING DETAILS

| Name | PCN | Description |
|---|---|---|
| ELEXANT 650c-Modbus | 1244-022835 | Controller for surface snow melting and roof and gutter applications with Modbus |
| E650C-R | 1244-022795 | Moisture and temperature sensor for roof and gutter de-icing, 6 m, with zinc mounting bracket |
| E650C-G | 1244-022794 | Moisture / 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 | | 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 without mains voltage |

**Europe, Middle East, Africa, India**

Tel   +32 16 213 511
Fax  +32 16 213 604
info@chemelex.com

**Asia Pacific**

Tel   +86 21 2412 1688
infoAPAC@chemelex.com

**chemelex**
excellence is everything

**Raychem   Tracer   Pyrotenax   Nuheat**

RAYCHEM-FLY-EU2373-Elexant650cModbus-EN-2504