

# Elexant 450c Control Unit

nVent RAYCHEM Elexant 450c is the next generation touch screen heat tracing controller for dual independent heating zone control, with multiple integrated sensing modes and remote alarm capability, providing the most energy efficient pipe freeze protection and temperature maintenance control system.

## FEATURES

Elexant 450c with Modbus RS485 port for remote monitoring connectivity, configuration, and ease of integration in a Building Management System (BMS).

Intuitive set-up and programming of the unit with a 4.3" color touch screen

Controls 2 independent heating circuits

Alarm relay with change over contact to signal power, temperature or communication problems

Pipe temperature monitoring with high and low temperature alarm

Heating system diagnostic data maintained in a logged file for easy download

USB port for preset-up in power off mode and firmware upgrade

Reliable during long life: 6 year extended product warranty available

## SPECIFICATIONS

|                                   |                                                                    |
|-----------------------------------|--------------------------------------------------------------------|
| <b>Output Relay:</b>              | 2 x 4 A @ 230 VAC                                                  |
| <b>Sensor Cable Length:</b>       | 5 m                                                                |
| <b>Depth:</b>                     | 56 mm                                                              |
| <b>Height:</b>                    | 110 mm                                                             |
| <b>Width:</b>                     | 158 mm                                                             |
| <b>Supply Voltage:</b>            | 195 – 253 V                                                        |
| <b>Temperature Control Range:</b> | 0 – 85 °C                                                          |
| <b>Mounting:</b>                  | DIN Rail                                                           |
| <b>IP Rating:</b>                 | IP20                                                               |
| <b>Sensor Type:</b>               | NTC, 2KΩ @ 25°C                                                    |
| <b>Alarm Relay:</b>               | Single Pole Double Throw Relay, Voltage-free, Rating 2 A @ 250 VAC |

Table 1/1

| Catalog Number | Item Name    | Communication Protocol |
|----------------|--------------|------------------------|
| 1244-021970    | ELEXANT 450c | None                   |

| Catalog Number | Item Name           | Communication Protocol |
|----------------|---------------------|------------------------|
| 1244-022623    | ELEXANT 450c-Modbus | Modbus RTU             |

## ADDITIONAL PRODUCT DETAILS

Temperature Control Range, (Line Sensing) can be extended to 250° using the Elexant 450 Plug-In Sensor Module and PT100 sensor

## WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

### North America

Tel +1.800.545.6258  
Fax +1.800.527.5703  
[thermal.info@nvent.com](mailto:thermal.info@nvent.com)

### Europe, Middle East, Africa

Tel +32.16.213.511  
Fax +32.16.213.604  
[thermal.info@nvent.com](mailto:thermal.info@nvent.com)

### Asia Pacific

Tel +86.21.2412.1688  
Fax +86.21.5426.3167  
[cn.thermal.info@nvent.com](mailto:cn.thermal.info@nvent.com)

### Latin America

Tel +1.713.868.4800  
Fax +1.713.868.2333  
[thermal.info@nvent.com](mailto:thermal.info@nvent.com)

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