

# EMDR-10 Control Unit



This product is currently being phased out, to be replaced by the all-new Elexant 650c-Modbus. nVent RAYCHEM EMDR-10 is an energy efficient controller for Icestop GM-2X/T self-regulating roof and gutter de-icing systems. Equipped with a temperature and moisture sensor, it only activates the system when detecting cold weather and moisture in combination.

## FEATURES

Simple and fast to install and operate

Energy saving, circuits energized only when cold weather and moisture are detected

Reliable during long life: 6 year product warranty available, maintenance free

## SPECIFICATIONS

Table 1/3

| Catalog Number | Item Name | Voltage Rating | Rated Frequency | Adjustment Range, Frost Protection | Nominal Switching Current @ 250V, Potential Free | Sensor Type |
|----------------|-----------|----------------|-----------------|------------------------------------|--------------------------------------------------|-------------|
| 449554-000     | EMDR-10   | 230 V          | 50 Hz min       | -3 to 6 °C                         | 1 A                                              | PTC         |

Table 2/3

| Catalog Number | Item Name | Moisture Sensor | Ambient Sensor | Power Consumption, Standby | IP Rating | Height |
|----------------|-----------|-----------------|----------------|----------------------------|-----------|--------|
| 449554-000     | EMDR-10   | Yes             | Yes            | 4 W                        | IP20      | 90 mm  |

Table 3/3

| Catalog Number | Item Name | Width | Depth | Shortest Temperature Phase |
|----------------|-----------|-------|-------|----------------------------|
|----------------|-----------|-------|-------|----------------------------|

|            |         |        |       |       |
|------------|---------|--------|-------|-------|
| 449554-000 | EMDR-10 | 110 mm | 58 mm | 1 min |
|------------|---------|--------|-------|-------|

## 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.

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