

# Elexant 4020i Control Module



nVent RAYCHEM ELEXANT 4020i-MOD is a set of replacement modules for the Elexant 4020i heat tracing controller.

## FEATURES

Available with intrinsically safe barrier and limiter.

Simple to install

Reliable during long life: 2 year product warranty available

## SPECIFICATIONS

|                                            |                                                   |
|--------------------------------------------|---------------------------------------------------|
| <b>Current Alarm:</b>                      | 0.1 – 100 A                                       |
| <b>Autocycle:</b>                          | 1 – 750 h                                         |
| <b>Ground Fault Alarm:</b>                 | 10 – 500 mA                                       |
| <b>Ethernet:</b>                           | 10/100 Base-T                                     |
| <b>Max Power Supply Input Wire Size:</b>   | 16.8 mm <sup>2</sup>                              |
| <b>Max Heating Cable Output Wire Size:</b> | 16.8 mm <sup>2</sup>                              |
| <b>Max Ground Terminal Wire Size:</b>      | 16.8 mm <sup>2</sup>                              |
| <b>Control Max Current:</b>                | 63A @ 40°C                                        |
| <b>Voltage Alarm:</b>                      | 80 – 300 V                                        |
| <b>Control Max Voltage:</b>                | 690 VAC Nominal, 50/60Hz                          |
| <b>Relative Humidity:</b>                  | 0% to 90%, Noncondensating                        |
| <b>Control Relay Type:</b>                 | Double-Pole, Solid-State; Double-Pole, Mechanical |
| <b>Communication:</b>                      | RS-485; Ethernet                                  |
| <b>Control Algorithms:</b>                 | On/Off, Proportional, PASC, Always On, Always Off |
| <b>Temperature Control Range:</b>          | –200 to 700 °C                                    |
| <b>Temperature Alarm:</b>                  | –200 to 700 °C                                    |
| <b>Operating Temperature:</b>              | –40 to 70 °C                                      |

Table 1/1

| Catalog Number | Item Name            | Communication Protocol           | RS-485 Cable Type                 | Safety Limiter                  | Intrinsically Safe Barriers on RTD Inputs |
|----------------|----------------------|----------------------------------|-----------------------------------|---------------------------------|-------------------------------------------|
| 10380-020      | 4020i-MOD            | Modbus RTU, Modbus/TCP           | One 2-Wire, Shielded Twisted Pair | No                              | No                                        |
| 10380-021      | 4020i-MOD-IS         | Modbus RTU, Modbus/TCP           | One 2-Wire, Shielded Twisted Pair | No                              | Yes                                       |
| 10380-022      | 4020i-MOD-IS-LIM     | Modbus RTU, Modbus/TCP           | 2-Wire One Shielded Twisted Pair  | One Dedicated Temperature Input | Yes                                       |
| 10380-024      | 4020i-MOD-3P-IS      | Modbus RTU, Modbus/TCP           | 2-Wire One Shielded Twisted Pair  | No                              | Yes                                       |
| 10380-025      | 4020i-MOD-IS-PRF     | Modbus RTU, Modbus/TCP, PROFIBUS | 2-Wire One Shielded Twisted Pair  | No                              | Yes                                       |
| 10380-026      | 4020i-MOD-IS-LIM-PRF | Modbus RTU, Modbus/TCP, PROFIBUS | 2-Wire One Shielded Twisted Pair  | One Dedicated Temperature Input | Yes                                       |
| 10380-027      | 4020i-MOD-3P-IS-PRF  | Modbus RTU, Modbus/TCP, PROFIBUS | 2-Wire One Shielded Twisted Pair  | No                              | Yes                                       |

## 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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