

ELEXANT 4020I HEAT TRACE CONTROLLER



nVent RAYCHEM Elexant 4020i Series is a range of compact, full-featured, touch screen based, single-point heat-tracing controllers, with ground fault protection. It provides control and monitoring for both freeze protection and process temperature maintenance. Available in three output types: a line powered relay for driving contactors in non hazardous areas; a DC output for driving solid-state relays (SSRs) in non hazardous and Class I Div. 2 / Zone 2 hazardous locations; and a 0-10V analog output for driving variable output power modules. Capable of controlling up to 60A at 690 Vac.

FEATURES & BENEFITS

Global approvals for CID2/Zone 2, ATEX Zone 2, IEC Ex Zone 2

Ready to install: no need for custom panel design or field assembly

Flexible control options: up to three directly- connected temperature sensors; also supports 4-20 mA inputs, allowing the use of external temperature sensor converters with thermocouples or other sensor types.; also line sensing, ambient sensing, proportional ambient sensing control (PASC) and power limiting modes.

Flexible monitoring options: ground fault, temperature, current and voltage to ensure system integrity; a programmable dry contact alarm relay is also provided for local or remote alarm annunciation

Multiple communication ports: RS485 and Ethernet, readily connected to a distributed control system (DCS); support both the Modbus RTU and Modbus/TCP protocols; can network to a host PC running Windows®-based nVent RAYCHEM Supervisor software for central programming, status review, and alarm annunciation

Reliable during long life: 10 year product warranty available

SPECIFICATIONS

NEMA Rating 4X

IP Rating IP66

Operating Temperature -40 to 70 °C

Relative Humidity 0% to 90%, Noncondensating

Control Relay Type Double-Pole, Solid-State

Control Max Voltage 690 VAC Nominal, 50/60Hz

Control Max Current 32A @ 40°C, De-Rated to 24A @ 50°C and Further De-Rated to 16A @ 60°C

Control Algorithms On/Off, Proportional, PASC, Always On, Always Off

Temperature Control Range -200 to 700 °C

Temperature Alarm -200 to 700 °C

Ground Fault Alarm 10 – 500 mA

Current Alarm 0.1 – 100 A

Voltage Alarm 80 – 300 V

Autocycle 1 – 750 h

Max Power Supply Input Wire Size 16.8 mm²

Max Heating Cable Output Wire Size 16.8 mm²

Max Ground Terminal Wire Size 16.8 mm²

Communication Ethernet; RS-485

Communication Protocol Modbus/TCP; Modbus RTU

RS-485 Cable Type One 2-Wire, Shielded Twisted Pair

Ethernet 10/100 Base-T

Table 1/2

Catalog Number	Item Name	Material	Height	Width	Depth	Circuit Quantity
10380-050	4020i-A-2-FW-2A1SS3-CVH	Fiber-Reinforced Plastic	625 mm	512 mm	291 mm	2

Table 2/2

Catalog Number	Item Name	Switching Capacity	Poles
10380-050	4020i-A-2-FW-2A1SS3-CVH	30 A	1

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10380-052	4020i-A-4-FW-4A1SS3-CVH	Fiber-Reinforced Plastic	795 mm	612 mm	330 mm	4
10380-053	4020i-A-6-FW-6A1SS3-CVH	Fiber-Reinforced Plastic	1025 mm	825 mm	291 mm	6

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10380-052	4020i-A-4-FW-4A1SS3-CVH	30 A	1
10380-053	4020i-A-6-FW-6A1SS3-CVH	30 A	1

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