

CUSTOM CONTROLLER

Reliable
Fresh Air
Ventilation
Control



CUSTOM CONTROLLER

is a fresh air ventilation controller that provides fully distributed digital control of HVAC rooftop units.

LOGIC ONE® – technology you can rely on

Novar's LOGIC ONE Advanced Building Control System delivers better reliability, greater versatility and more standard features than any other building control system on the market. LOGIC ONE technology is designed to maximize the operational efficiency of any HVAC or lighting system. The result: lower energy costs, increased comfort, and reduced equipment maintenance.

*Bottom Line: With Novar
You Know It's Dependable*

NOVAR®
CONTROLS

With Novar, you know.

LOGIC ONE



Specifications

**CUSTOM
CONTROLLER**

Custom Controller Is designed for applications where accurate and reliable fresh air ventilation control is critical. This provides direct control of outside air damper positions with positive feedback confirming damper position.

Physical Characteristics

Height:	5.5 inches.
Width:	8 inches.
Depth:	1.875 inches.
Weight:	1.75 lbs.
Mounting:	Four base-mounting holes allow fastening to interior rooftop compartment wall with metal screws. To be mounted in protected central enclosure in rooftop HVAC unit.

Operating Environment

Temperature:	-40° to 158° F (-40° to 70° C).
Humidity:	0 to 95% relative, noncondensing.

Electrical

Voltage:	24VAC (Class 2).
Consumption:	8VA.
Analog Inputs:	Dedicated.
Digital Inputs:	Contact closure only.
Analog Output:	0 to 10VDC, 1mA.
Digital Outputs:	24VAC, 1 ampere (pilot duty).
Status Indication:	Schedule-status indicator LED and relay-status LEDs.

Special Circuits/Diagnostics

Low Voltage Detect:	Senses proper operating voltage.
Temperature Sensor Monitor:	Verifies operation of temperature sensors.
Watch Dog:	Monitors and ensures CC timing and operation.
Fail Safe:	Programmed setpoints held in nonvolatile PROM.

Specifications subject to change without prior notification.

Listed Device, U.S., UL File #E90949(N)

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Surge Suppression: All inputs/outputs protected against lightning-induced surge or voltage transients.

Low Limit Protection: Outputs programmable to respond to low temperatures.

Network Communications

Method:	RS-485, isolated.
Cable (network):	2-wire, shielded cable. Belden 8761 or equivalent.

Options

Zone Temperature Sensors:	RTS-UVC – Remote Temperature Sensor. WTS-UVC – Standard wall-mount, nonadjustable. FTS-3 – Futura wall-mount, nonadjustable. FTS-3A – Futura wall-mount, with integral setpoint adjustment dial.
Sensor Cable:	100-ft. maximum.

ASHRAE Compliance

Cycle II ventilation control.

Input/Output Points

Inputs:	Total - 7. Zone temperature. Supply air temperature. Zone setpoint adjustment. Timed override. Airflow. Damper-position feedback. Filter status.
Outputs:	Total - 6. Heat 1 (digital). Heat 2 (digital). Cool 1 (digital). Cool 2 (digital). Fan (digital). Minimum damper position (analog).