novar LogicOne

Electronic Thermostat Module (Model ETM-3051T)

Multi-site Retail

The ETM is a dedicated digital controller that manages rooftop or unitary HVAC equipment in Novar's Logic One® Automated Building Control Systems. Logic One technology delivers better reliability, greater versatility, and more standard features than any other building control system on the market. ETMs are ideal for upgrading from conventional thermostats to fully distributed digital control. The ETM-3051T is generally mounted in the control cabinet of a packaged HVAC unit.

Features

- Maximized operational efficiency
- Lower energy costs
- Increased comfort
- Reduced equipment maintenance
- Built-in demand ventilation cycle

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(Model ETM-3051T)

Specifications

Physical Characteristics

Height:	5.9 inches
Width:	7.5 inches
Depth:	1.625 inches
Weight:	1 lb

Panel Mounting: The ETM can be mounted to an interior control panel or rooftop HVAC compartment wall via four slotted mounting holes on the ETM base. Terminal strips for input/output and power connections are enclosed. Knockouts are provided for 1/2-inch conduit. It does not require a separate enclosure.

Operating Environment

Temperature:	–40° to 158°F (–40° to 70°C)
Humidity:	0 to 90% relative, noncondensing

Electrical

Voltage:	24 VAC, 50/60 Hz, Class 2
Consumption:	10 VA
Analog Inputs:	Thermistor (10,000-ohm, Type 2)
Digital Inputs:	Contact closure only
Digital Outputs:	24 VAC, 1 amp, Class 2
Status Indication:	One schedule-status indicator LED, seven 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 ETM timing and operation
Fail Safe:	Programmed setpoints held in nonvolatile PROM
Surge Suppression:	All inputs/outputs protected against lightning-induced surge or voltage transients

Network Communications

Method:	RS-485 cable (network), two-wire, shielded cable (Novar WIR-1010, Belden 8761, or equivalent)

Inputs/Outputs

The ETM-3051T can be programmed to ignore a damaged space temperature sensor and automatically switch control to the return-air temperature sensor. Night mode damper capability improves energy efficiency during unoccupied hours.

Inputs:Total: 7

Airflow Status, Filter Status, Timed Override, Zone Temperature, Discharge-Air Temperature, Return-Air Temperature, Zone Setpoint Adjustment

Outputs (Digital): Total: 7

Cool 1 and 2, Heat 1 and 2, Fan, Damper, Ventilation

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