Economizer Controller

Submittal Data

SE-ECO1001-1 (031-03488-000B / 1154013)

Description

The Economizer Controller is a newly designed controller that meets the requirements of the Packaged Equipment. The new economizer controller replaces the existing third-party economizer controller.

The economizer controller communicates via standard Sensor/ Actuator (SA) bus to the main controller of the roof top unit (RTU), the Unit Control Board (UCB). When the economizer is installed as a field option, the controller is factory mounted with a wiring harness that is necessary for connection. Once connected, the economizer controller receives power and communication from the UCB. No additional programming is required in the field. The controllers automatically discover each other, and enable the economizer application to execute. You need to set a few configuration parameters using the local UI or the Mobile Access Portal (MAP) Gateway.

The economizer control meets Title 24 standards. The economizer has the ability to report up to five dedicated Fault Detection Diagnostics (FDD) through the local LCD, network sensor, thermostat with the X output for faults, or MAP gateway. In cases of equipment integration into a building management system (BMS), the same faults are communicated via the standard communication protocols.

Features

- replaces existing Honeywell® Economizer
- plug-and-play via BACnet® communication
- factory- or field-mounted
- meets Title 24 standards

Table 1: Selection Chart

Product Code Number	Description
SE-ECO1001-1 (031-03488-000B / 1154013)	Economizer controller, 8 analog inputs (AIs), 2 binary inputs (BIs), 2 analog outputs (AOs), and 3 binary outputs (BOs)

Repair Information

If the SE-ECO1001-1 Economizer Controller fails to operate within its specifications, replace the unit. For a replacement Economizer controller, contact Source1.

Figure 1: SE-ECO1001-1 (031-03488-000B / 1154013) Economizer Controller

Table 2: Technical Specifications

Product Code	SE-ECO1001-1 (031-03488-000B / 1154013): Economizer controller
Power Supply Requirement	24 VAC (nominal, 20 VAC minimum/30 VAC maximum), 50/60 Hz, power supply class 2 (North America), safety
Power Consumption	10 VA maximum
Ambient Conditions	**Storage:** -40 to 194°F(-40 to 85°C); 10 to 90% RH non-condensing **Operating:** -40 to 194°F (-40 to 85°C); 5 to 95% RH non-condensing
Processor	RX630 Renesas® microcontroller
Memory	1.5 MB internal program flash, 32 KB internal E2data flash, 4 MB external serial flash memory

Table 2: Technical Specifications (Continued)

Input and Output Capabilities	8 AIs: 1: 10k resistance temperature detector (RTD), 7: 0 to 10 VDC 2 AOs: 15 V ±10% sensor supply outputs 2 BIs: 24 VAC input with contact cleaning circuits 3 BOs: 3 triac outputs
Housing (Enclosure)	Noryl® UL94-V0 self-extinguishing, UL2043 Plenum Rated, Protection Class: IP20 (IEC529)
Mounting	DIN rail mounting, or with screws utilizing the DIN rail clips in the extended position
Dimensions (H x W x D)	5.8 x 6.5 x 1.73 in. (147 x 165 x 44 mm)
Shipping Weight	4.1 lb (1.9 kg)
Compliance	**United States:** UL Recognized, File E107041, UL 916, Energy Management Equipment, UL1995, Heating and Cooling Equipment; FCC Compliant to CFR47, Part 15, Subpart B, Class B
	Canada: UL Recognized, File E107041, CSA 22.2 No. 236, Signal Equipment Industry Canada, ICES-003 – Recognized

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Supersedes: Nothing

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