EMOAC-5000 Wiring Diagram

Economizer Controller (by others) Enhanced MOA Control (No Fault Signal)

Optional DCV Configuration: Analog CO_2 Sensor

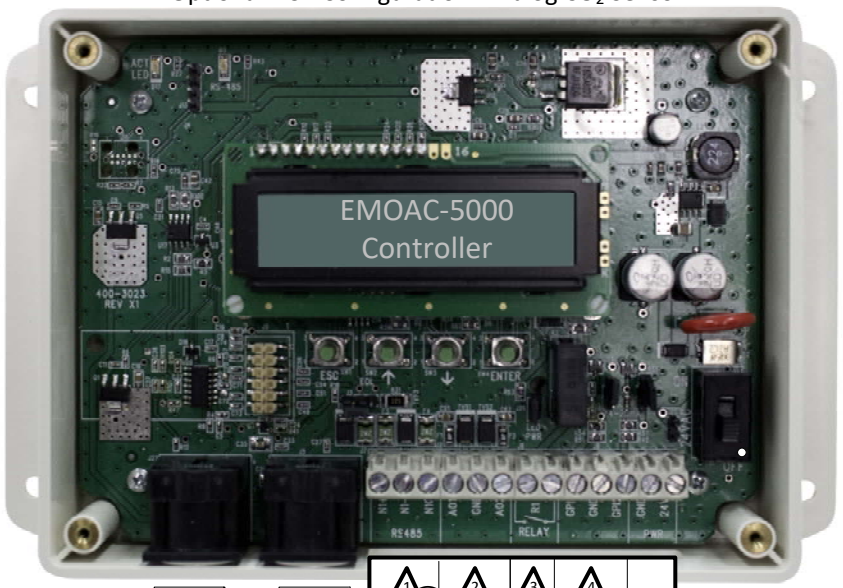
IAT THERMAL DISPERSION OUTDOOR AIRFLOW PROBE(S)

Probe #1 - 1 or 2 sensors
(required)

or

Probe #2 - 1 sensor
(optional if probe 1 is one sensor)

PROPORTIONAL ACTUATOR
2-10 VDC
0-5/0-10 VDC
4-20 mA
(by others)



P1

P2

FEP Plenum Rated Cable w/DIN Plug Included
10ft., 25ft. or 50 ft.

1 NET + (N1+)
NET – (N1-)
NETCOM (N1C)

2 AO1 + (AO1)
AO – (GND)
AO2 + (AO2)

3 RELAY R1
RELAY R1

4 GP1 + (GP1)
GP – (GND)
GP2 + (GP2)

COM - (GND)
HOT + (24 V)

5 Feedback (+)
Control (+)
Common (-)
24 VAC POWER (Hot +)

OPTIONAL ANALOG CO_2 SENSOR
AO+
AO -
L1 (+)
L2 (-)

R (+)
24 VAC
C (-)

CONTROLLER SETUP
1. Disable DCV
2. Set MIN POS to match MIN POS of economizer controller
3. Configure for single speed supply fan

FEEDBACK (+)
ACT (+)
ACT COM
ACT 24 VAC

ECONOMIZER CONTROLLER

1. RS-485 may be "daisy-chained" to a remote B.A.S. BACnet objects are read-write. EMOAC controllers are a ⅛ load BACnet Master device. Set termination jumper (J3) on the EMOAC controller if it is located at the end of the RS-485 line. EMOAC controller RS-485 connections are non-isolated. Install a GreenTrol network isolator if an isolated RS-485 connection is required.

2. Actuator, CO_2 sensor, and/or economizer controller signal common are not required when a single transformer is provided to devices without isolated outputs.

3. N.O. contact closure relay. 30 VDC or 24 VAC @ 3A max. On-board jumper (J26) allows relay to drive an external LED (by others).

4. Install jumper (J2) if a 4-20 mA CO_2 sensor is connected to the EMOAC-5000 controller.

5. If actuator feedback and DCV are both required, use the EMOAC-5000 controller with an RS-485 BACnet DCV sensor (see alternate wiring diagram for EMOAC-5000 with the RS-485 DCV sensor option)

EMOAC-5000_WiringDiagram_AnalogDCV_NoFAULT_r1d.vsd