EMOAC-4000 Wiring Diagram

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

Optional DCV Configuration: RS-485 BACnet MS/TP CO_2 Sensor or Occupancy Counter

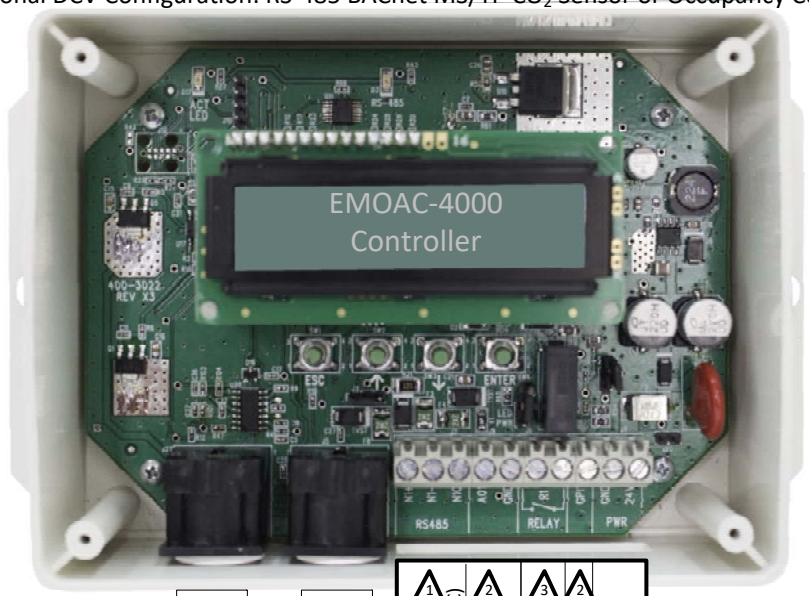
IAT THERMAL DISPERSION OUTDOOR AIRFLOW PROBE(S)

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.

NET + (N1+)
NET – (N1-)
NETCOM (N1C)

AO1 + (AO1)
AO – (GND)

RELAY R1
RELAY R1

GP1 + (GP1)

COM - (GND)
HOT+ (24 V)

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

OPTIONAL BACnet MS/TP CO_2 SENSOR or COUNTER

NET+
NET-
NETCOM
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 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. If actuator feedback is required for fault detection use the EMOAC-5000 controller.

EMOAC-4000_WiringDiagram_BACnetDCV_NoFAULT_r1c.vsd