EMOAC HARDWARE CONFIGURATION

FACTORY DEFAULT HARDWARE CONFIGURATION

N1 BACnet MS/TP Network	NONE. No MS/TP sensors or building automation system connected.
Actuator Type	2-10 VDC proportional actuator
ECO Fault Signal (EMOAC-5000 only)	ON. Actuator feedback signal and active faults passed to economizer controller.
Outdoor Airflow Sensor	Integral, -U or -T, thermal dispersion airflow/termperature probe(s) - Auto detected
Outdoor Air Intake Sensor Area	Null. MUST BE ENTERED FOR OPERATION.
CO2 Sensor	NONE
Occupancy Counter	NONE
Alarm/Mode Relay Assignement	ALRMS (assigned to active alarms bound to N.O. relay, R1)

CUSTOM HARDWARE CONFIGURATION

Open by simultaneously pressing {ESC} {ENT} during normal operation

Use ↑↓ buttons to navigate up/down menu. Press {ENT} to modify (parameter will flash). Use ↑↓ buttons to modify, {ENT} to accept, {ESC} to keep previous.

Fixed parameters (parameters that cannot be changed) will indicate "PARAMETER FIXED"

If LOCK SECURITY<>NONE using the SETUP MENU pressing enter will indicate "CONFIG LOCKED" and only parameter viewing is allowed.

*Navigate entire menu to step 29 to save settings. Press {ESC} twice at any time to exit without saving changes.

ITEM#	PARAMETER		DESCRIPTION	SKIP TO
1	N1 DEVICES		No BACnet MS/TP devices connected to network N1.	
		SENS	Approved MS/TP CO2 and/or Occupancy Counters connected to network N1. Note: Approved sensors have network parameters factory preset and autodetected by the EMOAC controller. No configuration is required. If custom configuration of network parameters is desired (baud rate, device MAC address or device/sensor device instance numbers) select BAS rather than SENS.	
		BAS	BAS MS/TP network connected to network N1	
			Note: MS/TP network parameters should be configured by the network integrator. Choose	
			this setting without a BAS is it is desired to modify network settings (i.e. baud rate, device MAC address, or device instance numbers of device/network sensors).	
2	ACTR SGNL	0-5V	0-5 VDC actuator control signal, 0% to 100% of full span.	
			0-10 VDC actuator control signal, 0% to 100% of full span.	
			2-10 VDC (can drive a 4-20 mA input) actuator control signal, 0% to 100% of full span.	
			Note: Economizer controller (by others) must be set to match the control signal of the actuator.	
3	ITEM 4 in only visible	on the EMOAC-5000	controller.	
4	ECO FAULT		No fault signal provided to the economizer controller.	
		ON	The actuator feedback signal is passed as the economizer controller fault input unless	
			modified by the MOAC mode or an active fault (EMOAC-5000 only).	
			Note: An analog airflow output and an analog CO2 input are not available when ECO FAULT	
			= ACT FB. The actuator feedback signal must be connected to the EMOAC controller and not	
5		0	the economizer controller for proper operation.	
5	OAF AREA	V	Outdoor airflow measuring device free area, in sq ft [sq m]. Important: Area is required for operation. Leave null field (default) if area is not known	
			during configuration. The device will prompt for area prior to operation.	
6	CO2 TYP	NONE	No CO2 sensor connected.	9
			Analog CO2 sensor connected (EMOAC-5000 only).	
			Note: An analog CO2 input is not available when ECO FAULT = ON	
		MS/TP	Approved MS/TP CO2 sensor connected (N1 DEVICES = SENS or BAS).	9

EMOAC HARDWARE CONFIGURATION

7	CO2 SGNL	0-5V	0-5 VDC output CO2 sensor installed.	
,	002 30NL		0-10 VDC output CO2 sensor installed.	
			2-10 VDC output CO2 sensor installed.	
			4-20mA (4-wire) output CO2 sensor installed. Jumper required on EMOAC PCB.	
			Note: Factory default output scaling is set to 0-2,000 ppm. The full scale reading of the CO2	
			sensor can be modified using advanced setup.	
8	CO2 FS		CO2 sensor full scale reading, 1,000 to 10,000 ppm.	
	CNTR TYP		No occupancy counter connected.	11
,			Approved MS/TP occupancy counter connected (N1 DEVICES = SENS or BAS).	
10	NUM CNTRS		Number of counters, 1 to 4.	
10	THOM SITTING		Note: If more than one counter is used, the device instance number additional counters must	
			be modified in each counter. If N1 DEV=SENS, set counter 2 DI=32, counter 3 DI=33 and	
			counter 4 DI=34.	
11	R1 ASGN		Relay R1 not assigned.	13
	111710011		R1 assigned to EMOAC notification alarms bound to R1.	13
			R1 assigned to the active control mode.	
12	R1 ACTMOD		R1 active during minimum and economizer modes.	
			R1 active during minimum outdoor air mode.	
			R1 active during economizer mode.	
13	ITEMS 15 to 27 are o	nly visible if N1 DEVIC		1
	N1 BAUD		N1 newtork baud rate of 76,800 bps.	1
			N1 newtork baud rate of 38,400 bps.	
			N1 newtork baud rate of 19,200 bps.	
			N1 newtork baud rate of 9,600 bps.	
15	N1 MAX MAST		N1 network max master, 0 to 127.	
			Note: Limiting MAX MAST to the actual number of devices on the network and sequentially	
			addressing each device will limit network overhead and improve network efficiency. The	
			default value for N1 MAX MAST assumes no building automation system is connected to the	
			N1 MS/TP network.	
16	N1 DEV MAC	1	The MAC address of this device on the N1 network, 0 to 127.	
17	DEV DI	1	The device instance number of this device on the N1 network, 0 to 4,194,302.	
18	ITEM 20 is only visible	e if CO2 TYP is equal	to MS/TP.	
19	CO2 DI	21	The device instance number of the CO2 sensor on the N1 network, 0 to 4,194,302	
20	ITEM 22 is only visible	e if CNTR TYP is equa	al to MS/TP and NUM CNTRS is greater than or equal to 1.	
21	CNTR1 DI	31	The device instance number of counter 1 on the N1 network, 0 to 4,194,302.	
22	ITEM 24 is only visible	e if CNTR TYP is equa	al to MS/TP and NUM CNTRS is greater than or equal to 2.	
	CNTR2 DI		The device instance number of counter 2 on the N1 network, 0 to 4,194,302.	
			al to MS/TP and NUM CNTRS is greater than or equal to 3.	
	CNTR3 DI		The device instance number of counter 3 on the N1 network, 0 to 4,194,302.	
			al to MS/TP and NUM CNTRS is equal to 4.	
	CNTR4 DI		The device instance number of counter 4 on the N1 network, 0 to 4,194,302.	ļ
28	DONE		Save changes and return to normal operation.	
			Do not save changes and return to normal operation.	
			Reset to factory default configuration and return to normal operation.	

EMOAC FIRMWARE CONFIGURATION

FACTORY DEFAULT FIRMWARE CONFIGURATION

Outdoor Air Control (OAC)	FLOW (modulating airflow setpoint outdoor airflow control when MOA mode is active)
OA Airflow Setpoint	0 cfm [lps] (simultaneously press ↑ or ↓ buttons during normal operation to modify)
Unoccupied Airflow Setpoint	0 cfm [lps]
Off-mode Operation (UN/OFF)	OFF (actuator output 0% when economizer controller is "off")
Economizer Controller Minimum Position	10%

CUSTOM FIRMWARE CONFIGURATION

Open by simultaneously pressing $\uparrow\downarrow$ during normal operation

Use ↑↓ buttons to navigate up/down menu. Press {ENT} to modify (parameter will flash). Use ↑↓ buttons to modify, {ENT} to accept, {ESC} to keep previous.

Fixed parameters (parameters that cannot be changed) will indicate "PARAMETER FIXED"

If LOCK SECURITY<>NONE using the SETUP MENU pressing enter will indicate "CONFIG LOCKED" and only parameter viewing is allowed.

*Navigate entire menu to step 39 to save settings. Press {ESC} twice at any time to exit without saving changes.

#				10
ITEM	PARAMETER	VALUE	DESCRIPTION	SKIP 1
1	OAC	FLOW	Modulate to maintain a fixed, user defined, minimum airflow rate.	9
		CO2	Modulate to maintain a fixed, user defined, CO2 level.	10
		CO2/OAF	Modulate to maintain a calculated minimum airflow rate based on estimated population.	
		COUNT	Modulate to maintain a calculated minimum airflow rate based on measured population.	4
		FIXED	Maintain the fixed minimum position specified by MIN POS.	15
		PASS	Pass the economizer output signal to the actuator at all times (no control by EMOAC).	16
			Note: CO2 and CO2/OAF will only be visible if a CO2 sensor was configured during hardware	
			config. COUNT will only be visible if an occupancy counter was configured during hardware config.	
2	OA CO2	400	Outdoor air CO2 level, 300 to 700 ppm.	
			Note: Outdoor air CO2 is typically assumed since CO2 sensor technology typically is not	
			accurate in outdoor air applications. OA CO2 can be modified via BACnet if actual CO2 levels	
			are monitored.	
3	MET	1.2	Expected occupant metabolic equivalent based on activity, 0.7 to 10 MET.	
			Note: Sedentary adults have a average MET output of 1.2. Metabolic activity can range	
			between 0.7 (very low activity such as sleeping) to over 10 (very high activity such as jumping	
			rope) and varies with age and diet. Occupant activity significantly affects the relationship	
4	RP	10 [2 4]	between ventilation and indoor CO2 levels. Ventilation zone required airflow rate, 0 to 50 cfm/person [0 to 10 lps/person].	
4	KP	10 [3.4]	Note: Rp is generally determined using ASHRAE Standard 62.1. The default value is based	
			on the equivalent ventilation rate for 1,000 ppm of sedentary adults and does not meet the	
			requirements of the Standard.	
5	RA	0		
		_	Note: Ra is generally determined using ASHRAE Standard 62.1. The default value does not	
			meet the requirements of the Standard.	
6	AZ	0		
			Note: Az must be entered if Ra is greater than 0.	
7	EZ	1	Ventilation effectiveness, 0.1 to 1.5.	
			Note: Ez is generally determined using ASHRAE Standard 62.1. It should be used when	
			occupancy counters are used or CO2 sensors are installed in the return air stream.	
8	EVZ	1	Ventilation efficiency, 0.1 to 1.	11
			Note: Using an estimated value for Evz can improve DCV peformance on multi-zone systems.	
9	OA SET	0	in minute outdoor annote outpoint, o to 1/111 one [o to o/ood ipo].	13
			Note:The minimum outdoor air setpoint can be modified at any time during normal operation	
			by pressing the ↑ or ↓buttons.	

EMOAC FIRMWARE CONFIGURATION

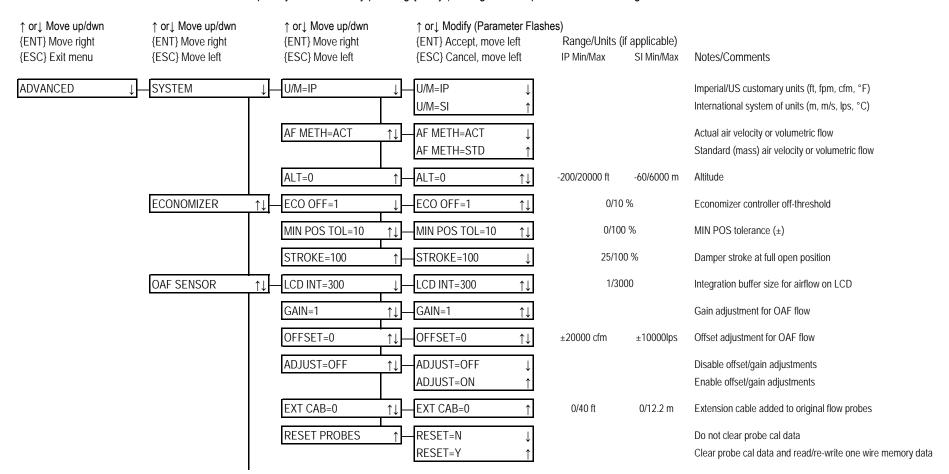
10 CC2 SET 100 CC2 Septont, 50 to 12 200 ppm. Noto: The CC2 septont not be modified at any kine during normal operation by prossing the 1 or 1 buttons. 11 DCV MIN 12 DCV MIN 13 DCV MIN 14 DCV MIN 15 DCV MIN III DCV MIN III DCV MIN III DCV, 0 to DCV MAX cfm [lps] Note: DCV MIN III DCV MIN III DCV MIN III DCV, 0 to DCV MIN III DCV MIN	10	CO2 SET	1000	CO2 cotnoint F00 to 2 000 npm	1
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DCV MIN					
Note: DCV MMX Note Upper ventilation rate Upper ventilation rate Septionit rather than fixed damper position. Set to equal the minimum required ventilation rate or local exhaust rate, whichever is greater. Possible Possible Upper ventilation rate Upper ventilation		5.01/1.01		•	
position. Set to equal the minimum required ventilation rate or local exhaust rate, whichever is greater. 12 DCV MAX NONE Upper ventilation rate limit during DCV, NONE or DCV MIN to 9,999 ctm [6,000 lps] 9999 Note: DCV MAX limits the maximum ventilation rate septiant rather than tixed damper oposition. Set to equal the ventilation required for the maximum expected population. This limit may result in higher than expected CO2 levels and activate the CO2 alout if the CO2-DCV method uncertainty would result in one-ventilation in a time expected population. This limit may result in higher than expected CO2 levels and activate the CO2 about the CO2-DCV method uncertainty would result in one-ventilation and maintain the CO2 about mit the CO2-DCV method uncertainty would result in one-ventilation and maintain the CO2 about the expected population. This limit may result in higher than expected CO2 levels specified. 10 UNOC SET 10 UNOC SET 10 UNOC FET the actual output signal will be set to 0% when the exconnaire controller is fort. 11 UNOC Medulate to maintain UNIOC SET when the connaire controller is fort. 12 UNOC Medulate to maintain unioCC SET when the economizer controller is fort. 13 UNOC SET William of mode and UNIOC SET when the economizer controller is fort. 14 UNOC Medulate to maintain unioCC SET when the economizer controller is fort. 15 Min POS 10 Minimum fixed damper position of 50 to 100% of full stoke. 16 Minimum position output of the economizer controller uninum position adupt for proper operation. Set the economizer controller uninum position adupt after the controller uninum position adupt and the activation output of the economizer controller using the RRAD Min POS tool. See "Advanced Setup, Tools and Diagnostics" for more information. 16 UNOC ALARM 17 UNOC ALARM 18 TIBIND 18 ON Do not bill active alarm to relay, R1 19 UNOC ALARM 19 UNOC mode airlino molitication alarm enabled. Automatic reset with return to in tolerance. 20 SETPNT 10 IO COMPART OF MIN POS in a position of the po	11	DCV MIN		·	
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DCV MAX NONE Upper ventilation rate limit during DCV, NONE or DCV MIN to 9,999 cfm [5,000 tps]				position. Set to equal the minimum required ventilation rate or local exhaust rate, whichever is	
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position. Set to equal the ventilation required for the maximum expected population. This limit may result in higher than expected QC levels and activate the QC2 atem (the CQ2-DCV method uncertaintly would result in over-ventilation at high occupancy levels. Setting DCV MAX to NONE will not limit ventilation and maintain the CQ2 level specified. 13 UNOC SET 14 UNOF TO Incurrent and the CQ2 level specified. 15 Note: The unoccupied mode ainflow setpin to 10 yeby 90 mt [10 to 500 ftps]. Note: The unoccupied ainflow setpin till will be maintained whenever the economizer controller is in off mode and UNIOCF is set to UNIOC in step 14 or via BACnet. 15 MIN POS 10 MIN POS must match the economizer controller minimum position output for proper operation. Set the economizer controller minimum position output for proper operation. Set the economizer controller up for fixed airliow control for DCV) and a one speed supply fan. MM POS is also used as the default damper position outing active fault conditions when UNIOC or MOA modes are active. 10 Intelligent of the economizer controller using the FIND MIN POS tool or read the minimum position output of the economizer controller using the FEAD MIN POS tool. See "Advanced Setup. Tools and Diagnostics" for more information. 16 INTELLIGENT TO 21 are only visible if OAC is set to FLOW, COZ, COZ/OOPA or COUNT. 17 UNOC ALARM OFF UNIOC mode airliow notification alarm enabled. Automatic reset with return to in tolerance. AUTO UNOC mode airliow notification alarm enabled. Automatic reset with return to in tolerance. AUTO UNOC mode airliow settlem is returned to the proper of the default dispress of the proper of	12	DCV MAX	NONE	Upper ventilation rate limit during DCV, NONE or DCV MIN to 9,999 cfm [5,000 lps]	
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operation. Set the economizer controller up for fixed airflow control (no DCV) and a one speed supply fan. MIN POS is also used as the default damper position during active fault conditions when UNOC or MOA modes are active. Tip: Find MIN POS for a specific airflow rate using the FIND MIN POS tool or read the minimum position output of the economizer controller using the READ MIN POS tool. See "Advanced Setup, Tools and Diagnostics" for more information. 16 ITEMS 17 to 21 are only visible if OAC is set to FLOW, CO2, CO2/OAF or COUNT. 17 UNOC ALARM OFF UNOC mode airflow notification alarm disabled. AUTO UNOC mode airflow notification alarm enabled. Manual reset required. AUTO UNOC mode airflow notification alarm enabled. Automatic reset with return to in tolerance. 18 R1 BIND NO Do not bind active alarm to relay, R1. YES Bind active alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.). 19 TYPE LO Low airflow alarm. Active above SETPNT - TOL after specified DELAY. HI High airflow alarm. Active above SETPNT + TOL after specified DELAY. HIH dight airflow alarm. Active above SETPNT is UNOC SET. 20 SETPNT (Alarm selpoint, in cfm [lps]. Note: The default (I) value for SETPNT is UNOC SET. 21 TOL 20% Alarm tolerance, ½ OAF PID deadband tolerance to 50% DELAY 1 Delay, 0 to 30 minutes, after alarm is 'outside' of tolerance before alarm is active. 21 TEMS 24 to 29 are NOT visible if OAC is set to CO2 (OA airflow alarm is not available when OAC is set to CO2). 22 DELAY 1 Delay, 0 to 30 minutes, after alarm is 'outside' of tolerance before alarm is active. 33 TEMS 24 to 29 are NOT visible if OAC is set to CO2 (OA airflow alarm is not available when OAC is set to CO2). 34 TEMS 24 to 29 are NOT visible if OAC is set to CO2 (OA airflow alarm is not available when OAC is set to CO2). 25 R1 BIND NO Do not bind active alarm to relay, R1 (requires R1 ASGN-ALRMS during hardware config.). 26 TYPE LO Low airflow alarm. Active above SETPNT + TOL after specified DELAY. HIH digh airflow alarm. Active a	15	IVIIIN PUS			
supply fan. MIN POS is also used as the default damper position during active fault conditions when UNOC or MOA modes are active. Tip: Find MIN POS for a specific airflow rate using the FIND MIN POS tool or read the minimum position output of the economizer controller using the READ MIN POS tool. See "Advanced Setup, Tools and Diagnostics" for more information. 16 ITEMS 17 to 21 are only visible if OAC is set to FLOW, CO2, CO2/AP or COUNT. 17 UNOC ALARM OFF UNOC mode airflow notification alarm disabled. AUTO UNOC mode airflow notification alarm enabled. Manual reset required. AUTO UNOC mode airflow notification alarm enabled. Automatic reset with return to in tolerance. YES Bind active alarm to relay, R1. 18 R1 BIND NO Do not bind active alarm to relay, R1. YES Bind active alarm to relay, R1. High airflow alarm. Active above SETPNT + TOL after specified DELAY. Hillo High airflow alarm. Active above SETPNT + TOL after specified DELAY. HILLO High/Low airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. 10 Alarm setpoint, in crim [Ips]. Note: The default () value for SETPNT is UNOC SET. 21 TOL 220 SELAY 10 Delay, 0 to 30 minutes, after alarm is "outside" of tolerance before alarm is active. 11 EMS 24 to 29 are NOT visible if OAC is set to CO2 (OA airflow alarm and salabled. Manual reset required. AUTO MOA mode airflow notification alarm enabled. Automatic reset with return to in tolerance. NO Do not bind active alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.). 120 PIYPE LO Low airflow alarm. Active below SETPNT + TOL after specified DELAY. HILLO High/Low airflow alarm. Active below SETPNT + TOL after specified DELAY. HILLO High/Low airflow alarm. Active above/below SETPNT + TOL after specified DELAY. HILLO High/Low airflow alarm. Active above SETPNT + TOL after specified DELAY. HILLO High/Low airflow alarm. Active above SETPNT + TOL after specified DELAY. HILLO High/Low airflow alarm. Active above SETPNT + TOL after specified DELAY. HILLO High/Low a					
conditions when UNOC or MOA modes are active. Tip: Find MIN POS for a specific airflow rate using the FIND MIN POS tool or read the minimum position output of the economizer controller using the READ MIN POS tool. See "Advanced Setup, Tools and Diagnostics" for more information. 16. ITEMS 17 to 21 are only visible if OAC is set to FLOW, CO2. CO2/OAF or COUNT. 17. UNOC ALARM OFF UNOC mode airflow notification alarm disabled. AUTO UNOC mode airflow notification alarm enabled. Manual reset required. AUTO UNOC mode airflow notification alarm enabled. Automatic reset with return to in tolerance. 18. R1 BIND NO Do not bind active alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.). 19. TYPE LO Low airflow alarm. Active below SETPNT - TOL after specified DELAY. HIH, High airflow alarm. Active above SETPNT + TOL after specified DELAY. HIH, High Low airflow alarm. Active above SETPNT ± TOL after specified DELAY. Alarm setpoint, in cfm [lps]. Note: The default () value for SETPNT is UNOC SET. 20. DELAY Delay, 0 to 30 minutes, after alarm is "outside" of tolerance before alarm is active. 21. TOL 22. Alarm setpoint, in cfm [lps]. Note: The default () value for SETPNT is United. ALTO MOA mode airflow notification alarm enabled. Manual reset required. AUTO MOA mode airflow notification alarm enabled. Automatic reset with return to in tolerance. AUTO MOA mode airflow notification alarm enabled. Automatic reset with return to in tolerance. HIH, High airflow alarm. Active above SETPNT ± TOL after specified DELAY. HIH, High airflow alarm. Active above SETPNT is MOA SET when MOAC is set to FLOW, the calculated active alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.). NO Do not bind active alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.). NO Extremely alarm. Active above SETPNT is MOA SET when MOAC is set to FLOW, the calculated active airflow alarm. Active above SETPNT is MOA SET when MOAC is set to FLOW, the calculated active airflow setpoint when MOA					
Tip: Find MIN POS for a specific airflow rate using the FIND MIN POS tool or read the minimum position output of the economizer controller using the READ MIN POS tool. See "Advanced Setup, Tools and Diagnostics" for more information. 16 ITEMS 17 to 21 are only visible if OAC is set to FLOW, CO2, CO2/OAF or COUNT. 17 UNOC ALARM OFF UNOC mode airflow notification alarm disabled. AUTO UNOC mode airflow notification alarm enabled. Manual reset required. AUTO UNOC mode airflow notification alarm enabled. Automatic reset with return to in tolerance. AUTO UNOC mode airflow notification alarm enabled. Automatic reset with return to in tolerance. AUTO UNOC mode airflow notification alarm enabled. Automatic reset with return to in tolerance. AUTO UNOC mode airflow notification alarm enabled. Automatic reset with return to in tolerance. AUTO UNOC mode airflow notification alarm enabled. Automatic reset with return to in tolerance. AUTO UNOC mode airflow notification alarm enabled. Automatic reset with return to in tolerance. Bind active alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.). HILL High airflow alarm. Active above SETPNT + TOL after specified DELAY. HILL High/Low airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. Alarm setpoint, in cfm [lps]. Automatic reset with return to in tolerance. AUTO UNOC mode airflow notification alarm enabled. Automatic reset with return to in tolerance. AUTO MOA mode airflow notification alarm enabled. Automatic reset with return to in tolerance. AUTO Work mode airflow notification alarm enabled. Automatic reset with return to in tolerance. AUTO Work mode airflow alarm. Active above SETPNT + TOL after specified DELAY. HILL High/Low airflow alarm. Active above SETPNT + TOL after specified DELAY. HILL High/Low airflow alarm. Active above SETPNT + TOL after specified DELAY. HILL High/Low airflow alarm. Active above SETPNT + TOL after specified DELAY. Alarm setpoint, in cfm [lps]. Note:The default {} value for SETPNT is MOA SET w					
minimum position output of the economizer controller using the READ MIN POS tool. See "Advanced Setup, Tools and Diagnostics" for more information. 17 UNOC ALARM OFF UNOC mode airflow notification alarm disabled. AUTO UNOC mode airflow notification alarm enabled. Manual reset required. AUTO UNOC mode airflow notification alarm enabled. Automatic reset with return to in tolerance. 18 R1 BIND NO Do not bind active alarm to relay, R1. YES Bind active alarm to relay, R1 (requires R1 ASGN-ALRMS during hardware config.). 19 TYPE LO Low airflow alarm. Active below SETPNT - TOL after specified DELAY. HILD High/Low airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. Alarm setpoint, in cfm [lps]. Note:The default () value for SETPNT is UNOC SET. 20 SETPNT () Alarm setpoint, in cfm [lps]. Note:The default () value for SETPNT is UNOC SET. 21 TOL 20% Alarm tolerance, 'y OAF PID deadband tolerance before alarm is active. 22 DELAY 1) Delay, 0 to 30 minutes, after alarm is "outside" of tolerance before alarm is active. 23 ITEMS 24 to 29 are NOT visible if OAC is set to CO2 (OA airflow notification alarm enabled. Manual reset required. AUTO MOA mode airflow notification alarm enabled. Manual reset required. AUTO MOA mode airflow notification alarm enabled. Automatic reset with return to in tolerance. 24 PYPE 10 Lo wairflow alarm. Active above SETPNT + TOL after specified DELAY. HILD High/Low airflow alarm. Active above SETPNT + TOL after specified DELAY. HILD High/Low airflow alarm. Active above SETPNT + TOL after specified DELAY. HILD High/Low airflow alarm. Active above SETPNT + TOL after specified DELAY. HILD High/Low airflow alarm. Active above SETPNT + TOL after specified DELAY. HILD High/Low alarm. Active above SETPNT + TOL after specified DELAY. HILD High/Low alarm. Active above SETPNT + TOL after specified DELAY. HILD High/Low alarm. Active above SETPNT is MOA SET when MOAC is set to FLOW, the calculated active airflow setpoint when MOAC is set to OAF/CO2 or COUNT, or 0 when MOAC is set to F					
See "Advanced Setup, Tools and Diagnostics" for more information.					
TEMS 17 to 21 are only visible if OAC is set to FLOW, CO2, CO2/OAF or COUNT.					
UNOC ALARM	16	ITEMS 17 to 21 aro			<u> </u>
MAN UNOC mode airflow notification alarm enabled. Manual reset required. AUTO UNOC mode airflow notification alarm enabled. Automatic reset with return to in tolerance. 18 R1 BIND NO Do not bind active alarm to relay, R1. YES Bind active alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.). 19 TYPE LO Low airflow alarm. Active below SETPNT - TOL after specified DELAY. High airflow alarm. Active above SETPNT + TOL after specified DELAY. HIVLO High/Low airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. HIVLO High/Low airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. Alarm selpoint, in cfm [lps]. Note:The default () value for SETPNT is UNOC SET. 21 TOL 20% Alarm tolerance, ½ OAF PID deadband tolerance to 50% DELAY 1 Delay, 0 to 30 minutes, after alarm is "outside" of tolerance before alarm is active. 23 ITEMS 24 to 29 are NOT visible if OAC is set to CO2 (OA airflow alarm is not available when OAC is set to CO2). 24 OA ALARM OFF MOA mode airflow notification alarm enabled. Manual reset required. AUTO MOA mode airflow notification alarm enabled. Automatic reset with return to in tolerance. 25 R1 BIND NO Do not bind active alarm to relay, R1. YES Bind active alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.). 26 TYPE LO Low airflow alarm. Active above SETPNT + TOL after specified DELAY. HIJLO High/Low airflow alarm. Active above SETPNT + TOL after specified DELAY. HIJLO Waler alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.). Alarm setpoint, in cfm [lps]. Note:The default () value for SETPNT is MOA SET when MOAC is set to FLOW, the calculated active airflow setpoint when MOAC is set to OAF/CO2 or COUNT, or 0 when MOAC is set to FIXED or PASS.					23
AUTO UNOC mode airflow notification alarm enabled. Automatic reset with return to in tolerance. 18 R1 BIND NO Do not bind active alarm to relay, R1. YES Bind active alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.). 19 TYPE LO LO wairflow alarm. Active below SETPNT - TOL after specified DELAY. Hilligh airflow alarm. Active above SETPNT + TOL after specified DELAY. Hilligh airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. Hilligh airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. Alarm setpoint, in cfm [lps]. Note: The default (f) value for SETPNT is UNOC SET. 10 L 20% Alarm tolerance, ½ OAF PID deadband tolerance to 50% DELAY 1 Delay, 0 to 30 minutes, after alarm is "outside" of tolerance before alarm is active. 11 TEMS 24 to 29 are NOT visible if OAC is set to CO2 (OA airflow alarm is not available when OAC is set to CO2). 24 OA ALARM OFF MOA mode airflow notification alarm disabled. AUTO MOA mode airflow notification alarm enabled. Manual reset required. AUTO MOA mode airflow notification alarm enabled. Automatic reset with return to in tolerance. 25 R1 BIND NO Do not bind active alarm to relay, R1. YES Bind active alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.). 16 TYPE LO Low airflow alarm. Active below SETPNT - TOL after specified DELAY. Hilligh airflow alarm. Active above SETPNT + TOL after specified DELAY. Hilligh airflow alarm. Active above SETPNT + TOL after specified DELAY. Alarm setpoint, in cfm [lps]. Note: The default (f) value for SETPNT is MOA SET when MOAC is set to FLOW, the calculated active airflow selpoint when MOAC is set to OAF/CO2 or COUNT, or 0 when MOAC is set to FIXED or PASS.	17	UNOC ALAKWI			23
R1 BIND				· ·	
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TYPE LO Low airflow alarm. Active below SETPNT - TOL after specified DELAY. High airflow alarm. Active above SETPNT + TOL after specified DELAY. High/Low airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. Alarm setpoint, in cfm [lps]. Note: The default {} value for SETPNT is UNOC SET. TOL 20% Alarm tolerance, ½ OAF PID deadband tolerance to 50% DELAY 1 Delay, 0 to 30 minutes, after alarm is "outside" of tolerance before alarm is active. TIEMS 24 to 29 are NOT visible if OAC is set to CO2 (OA airflow alarm is not available when OAC is set to CO2). AUTO MOA mode airflow notification alarm enabled. Manual reset required. AUTO MOA mode airflow notification alarm enabled. Automatic reset with return to in tolerance. AUTO MOA mode airflow alarm to relay, R1. TYPE LO Low airflow alarm. Active alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.). LO Low airflow alarm. Active below SETPNT - TOL after specified DELAY. High airflow alarm. Active above/below SETPNT + TOL after specified DELAY. High/Low airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. High/Low airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. High/Low airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. High/Low airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. High/Low airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. High/Low airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. Alarm setpoint, in cfm [lps]. Note: The default {} value for SETPNT is MOA SET when MOAC is set to FLOW, the calculated active airflow setpoint when MOAC is set to OAF/CO2 or COUNT, or 0 when MOAC is set to FIXED or PASS. TOL 15% Alarm tolerance, ½ OAF PID deadband tolerance to 50%	10	IXT DIND			
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HI/LO High/Low airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. 20 SETPNT 3 Alarm setpoint, in cfm [lps]. Note: The default {} value for SETPNT is UNOC SET. 21 TOL 20% Alarm tolerance, ½ OAF PID deadband tolerance to 50% 22 DELAY 1 Delay, 0 to 30 minutes, after alarm is "outside" of tolerance before alarm is active. 23 ITEMS 24 to 29 are NOT visible if OAC is set to CO2 (OA airflow alarm is not available when OAC is set to CO2). 24 OA ALARM OFF MOA mode airflow notification alarm enabled. Manual reset required. MOA mode airflow notification alarm enabled. Automatic reset with return to in tolerance. 25 R1 BIND NO Do not bind active alarm to relay, R1. YES Bind active alarm to relay, R1. YES Bind active alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.). 26 TYPE LO Low airflow alarm. Active below SETPNT - TOL after specified DELAY. High airflow alarm. Active above/below SETPNT + TOL after specified DELAY. High/Low airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. Alarm setpoint, in cfm [lps]. Note: The default {} value for SETPNT is MOA SET when MOAC is set to FLOW, the calculated active airflow setpoint when MOAC is set to OAF/CO2 or COUNT, or 0 when MOAC is set to FIXED or PASS. 28 TOL 15% Alarm tolerance, ½ OAF PID deadband tolerance to 50%	' '				
20 SETPNT { Alarm setpoint, in cfm [lps], Note: The default {} value for SETPNT is UNOC SET. } 21 TOL 20% Alarm tolerance, ½ OAF PID deadband tolerance to 50% 22 DELAY				-	
Note:The default {} value for SETPNT is UNOC SET. 21 TOL 20% Alarm tolerance, ½ OAF PID deadband tolerance to 50% 22 DELAY 1 Delay, 0 to 30 minutes, after alarm is "outside" of tolerance before alarm is active. 23 ITEMS 24 to 29 are NOT visible if OAC is set to CO2 (OA airflow alarm is not available when OAC is set to CO2). 24 OA ALARM OFF MOA mode airflow notification alarm disabled. 30 MAN MOA mode airflow notification alarm enabled. Manual reset required. AUTO MOA mode airflow notification alarm enabled. Automatic reset with return to in tolerance. 25 R1 BIND NO Do not bind active alarm to relay, R1. YES Bind active alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.). 26 TYPE LO Low airflow alarm. Active below SETPNT - TOL after specified DELAY. High airflow alarm. Active above/below SETPNT + TOL after specified DELAY. High airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. HI/LO High/Low airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. Alarm setpoint, in cfm [lps]. Note:The default {} value for SETPNT is MOA SET when MOAC is set to FLOW, the calculated active airflow setpoint when MOAC is set to OAF/CO2 or COUNT, or 0 when MOAC is set to FIXED or PASS. 28 TOL 15% Alarm tolerance, ½ OAF PID deadband tolerance to 50%	20	CETDNIT		•	
TOL 20% Alarm tolerance, ½ OAF PID deadband tolerance to 50% DELAY 1 Delay, 0 to 30 minutes, after alarm is "outside" of tolerance before alarm is active. ITEMS 24 to 29 are NOT visible if OAC is set to CO2 (OA airflow alarm is not available when OAC is set to CO2). OA ALARM OFF MOA mode airflow notification alarm disabled. 30 MOA mode airflow notification alarm enabled. Manual reset required. 40 MOA mode airflow notification alarm enabled. Automatic reset with return to in tolerance. Prival BIND NO Do not bind active alarm to relay, R1. Sind active alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.). TYPE LO Low airflow alarm. Active below SETPNT - TOL after specified DELAY. High airflow alarm. Active above SETPNT + TOL after specified DELAY. High/Low airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. High/Low airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. Note: The default {} value for SETPNT is MOA SET when MOAC is set to FLOW, the calculated active airflow setpoint when MOAC is set to OAF/CO2 or COUNT, or 0 when MOAC is set to FIXED or PASS. TOL 15% Alarm tolerance, ½ OAF PID deadband tolerance to 50%	20	SLIFINI		· · · · · · · · · · · · · · · · · · ·	
DELAY 1 Delay, 0 to 30 minutes, after alarm is "outside" of tolerance before alarm is active. ITEMS 24 to 29 are NOT visible if OAC is set to CO2 (OA airflow alarm is not available when OAC is set to CO2). OA ALARM OFF MOA mode airflow notification alarm disabled. AUTO MOA mode airflow notification alarm enabled. Manual reset required. AUTO MOA mode airflow notification alarm enabled. Automatic reset with return to in tolerance. Preside alarm to relay, R1. ITYPE LO Low airflow alarm. Active alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.). ITYPE LO Low airflow alarm. Active below SETPNT - TOL after specified DELAY. High airflow alarm. Active above SETPNT + TOL after specified DELAY. High/Low airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. Note: The default {} value for SETPNT is MOA SET when MOAC is set to FLOW, the calculated active airflow setpoint when MOAC is set to OAF/CO2 or COUNT, or 0 when MOAC is set to FIXED or PASS. TOL 15% Alarm tolerance, ½ OAF PID deadband tolerance to 50%	21	TOI			
23 ITEMS 24 to 29 are NOT visible if OAC is set to CO2 (OA airflow alarm is not available when OAC is set to CO2). 24 OA ALARM OFF MOA mode airflow notification alarm disabled. AUTO MOA mode airflow notification alarm enabled. Manual reset required. AUTO MOA mode airflow notification alarm enabled. Automatic reset with return to in tolerance. 25 R1 BIND NO Do not bind active alarm to relay, R1. YES Bind active alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.)). 17 YPE LO Low airflow alarm. Active below SETPNT - TOL after specified DELAY. Hilh airflow alarm. Active above SETPNT + TOL after specified DELAY. Hilh airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. Hilh airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. Note: The default {} value for SETPNT is MOA SET when MOAC is set to FLOW, the calculated active airflow setpoint when MOAC is set to OAF/CO2 or COUNT, or 0 when MOAC is set to FIXED or PASS. 10 TOL 15 Alarm tolerance, ½ OAF PID deadband tolerance to 50%	_				
OA ALARM OFF MOA mode airflow notification alarm disabled. MAN MOA mode airflow notification alarm enabled. Manual reset required. AUTO MOA mode airflow notification alarm enabled. Automatic reset with return to in tolerance. NO Do not bind active alarm to relay, R1. YES Bind active alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.). LO Low airflow alarm. Active below SETPNT - TOL after specified DELAY. High airflow alarm. Active above SETPNT + TOL after specified DELAY. High/Low airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. Note: The default {} value for SETPNT is MOA SET when MOAC is set to FLOW, the calculated active airflow setpoint when MOAC is set to OAF/CO2 or COUNT, or 0 when MOAC is set to FIXED or PASS. TOL 15% Alarm tolerance, ½ OAF PID deadband tolerance to 50%					<u> </u>
MAN MOA mode airflow notification alarm enabled. Manual reset required. AUTO MOA mode airflow notification alarm enabled. Automatic reset with return to in tolerance. Problem 1					30
AUTO MOA mode airflow notification alarm enabled. Automatic reset with return to in tolerance. 25 R1 BIND NO Do not bind active alarm to relay, R1. YES Bind active alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.). 26 TYPE LO Low airflow alarm. Active below SETPNT - TOL after specified DELAY. High airflow alarm. Active above SETPNT + TOL after specified DELAY. HI/LO High/Low airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. HI/LO High/Low airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. Alarm setpoint, in cfm [lps]. Note:The default {} value for SETPNT is MOA SET when MOAC is set to FLOW, the calculated active airflow setpoint when MOAC is set to OAF/CO2 or COUNT, or 0 when MOAC is set to FIXED or PASS. 28 TOL 15% Alarm tolerance, ½ OAF PID deadband tolerance to 50%	L ⁴	JA ALAINIVI			50
25 R1 BIND NO Do not bind active alarm to relay, R1. YES Bind active alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.). 26 TYPE LO Low airflow alarm. Active below SETPNT - TOL after specified DELAY. High airflow alarm. Active above SETPNT + TOL after specified DELAY. Hi/LO High/Low airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. 27 SETPNT {} Alarm setpoint, in cfm [lps]. Note:The default {} value for SETPNT is MOA SET when MOAC is set to FLOW, the calculated active airflow setpoint when MOAC is set to OAF/CO2 or COUNT, or 0 when MOAC is set to FIXED or PASS. 28 TOL 15% Alarm tolerance, ½ OAF PID deadband tolerance to 50%				•	
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HI/LO High/Low airflow alarm. Active above/below SETPNT ± TOL after specified DELAY. SETPNT Alarm setpoint, in cfm [lps]. Note:The default {} value for SETPNT is MOA SET when MOAC is set to FLOW, the calculated active airflow setpoint when MOAC is set to OAF/CO2 or COUNT, or 0 when MOAC is set to FIXED or PASS. TOL 15% Alarm tolerance, ½ OAF PID deadband tolerance to 50%	20			·	
27 SETPNT {} Alarm setpoint, in cfm [lps]. Note: The default {} value for SETPNT is MOA SET when MOAC is set to FLOW, the calculated active airflow setpoint when MOAC is set to OAF/CO2 or COUNT, or 0 when MOAC is set to FIXED or PASS. 28 TOL 15% Alarm tolerance, ½ OAF PID deadband tolerance to 50%				-	
Note:The default {} value for SETPNT is MOA SET when MOAC is set to FLOW, the calculated active airflow setpoint when MOAC is set to OAF/CO2 or COUNT, or 0 when MOAC is set to FIXED or PASS. 28 TOL 15% Alarm tolerance, ½ OAF PID deadband tolerance to 50%	27	SETDNIT			
calculated active airflow setpoint when MOAC is set to OAF/CO2 or COUNT, or 0 when MOAC is set to FIXED or PASS. 28 TOL 15% Alarm tolerance, ½ OAF PID deadband tolerance to 50%	2.1	SLIFINI		• • • • • • • • • • • • • • • • • • • •	
MOAC is set to FIXED or PASS. 28 TOL 15% Alarm tolerance, ½ OAF PID deadband tolerance to 50%					
28 TOL 15% Alarm tolerance, ½ OAF PID deadband tolerance to 50%				,	
				MUAC is set to FIXED or PASS.	
29 DELAY 1 Delay, 0 to 30 minutes, after alarm is "outside" of tolerance before alarm is active.	28	TOI	15%	Alarm tolerance 1/2 OAF PID deadhand tolerance to 50%	
		TOL	1370	Thairi toloranoo, 72 of ii Tib doddbard toloranoo to oo70	

EMOAC FIRMWARE CONFIGURATION

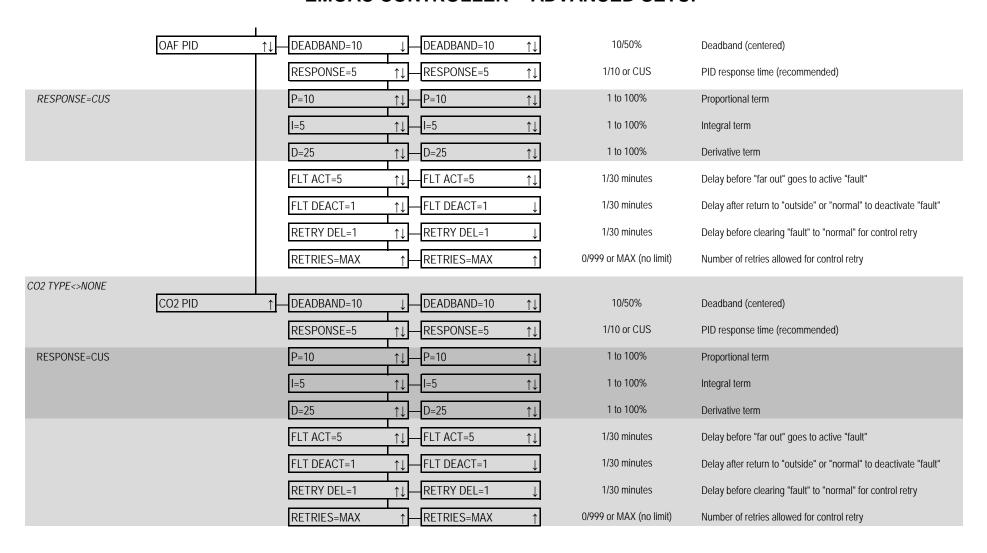
30	ITEM 31 to 36 are onl	y visible if CO2 TYP is	s equal to ANLG or MS/TP (i.e. a CO2 sensor is installed).	
31	CO2 ALARM	OFF	All mode CO2 notification alarm disabled.	36
		MAN	All mode CO2 notification alarm enabled. Manual reset required.	
		AUTO	All mode CO2 notification alarm enabled. Automatic reset with return to in tolerance.	
32	R1 BIND	NO	Do not bind active alarm to relay, R1.	
		YES	Bind active alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.).	
33	TYPE	HI	High CO2 alarm. Active below SETPNT - TOL after specified DELAY.	
34	SETPNT	{}	Alarm setpoint, in ppm.	
			Note: The default {} value for SETPNT is CO2 SET when MOAC is set to CO2, or 1,000 when	
			MOAC is set to FLOW, CO2/OAF, COUNT, FIXED or PASS.	
			40.6.704.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	
			Important: 1,000 ppm may be exceeded whenever 18 cfm [3.4 lps] or less is provided to	
			sedentary adults even though the ventilation rate provided may meet the requirement	
			of ASHRAE standard 62.1.	
35	TOL		Alarm tolerance, ½ CO2 PID deadband tolerance to 50%	
36	DELAY		Delay, 0 to 30 minutes, after alarm is "outside" of tolerance before alarm is active.	
37	TRBL ALARM		System status notification alarm disabled.	39
			System status notification alarm enabled. Manual reset required.	
		AUTO	System status notification alarm enabled. Automatic reset with return to in tolerance.	
38	R1 BIND	NO	Do not bind active alarm to relay, R1.	
			Bind active alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.).	
39	DONE		Save changes and return to normal operation.	
		CANCEL	Do not save changes and return to normal operation.	
		RESET	Reset to factory default configuration and return to normal operation.	

EMOAC CONTROLLER - ADVANCED SETUP

Open by simultaneously pressing {ESC} \(\tau\) during normal operation. Follow navigation rules below.

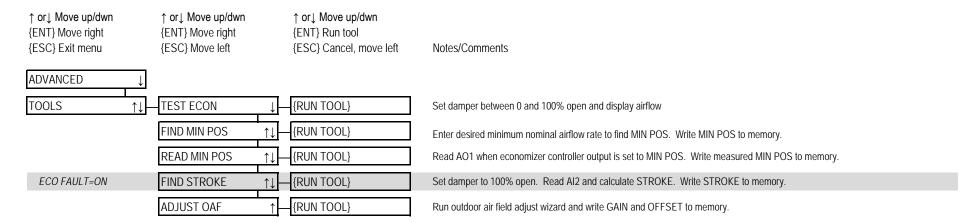


EMOAC CONTROLLER - ADVANCED SETUP



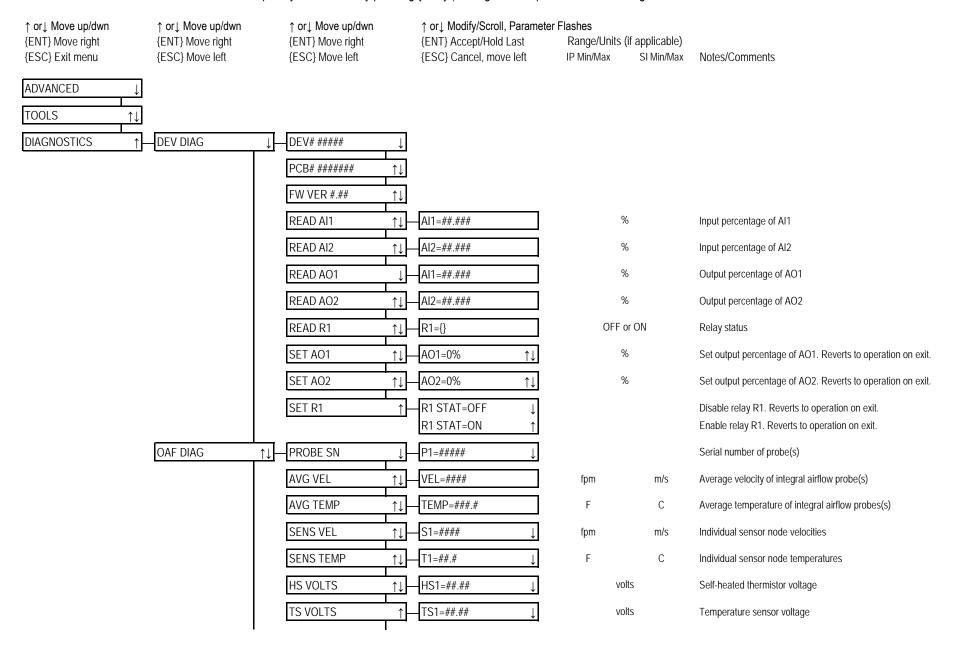
EMOAC CONTROLLER - TOOLS

Open by simultaneously pressing {ESC} \(\gamma\) during normal operation. Follow navigation rules below.

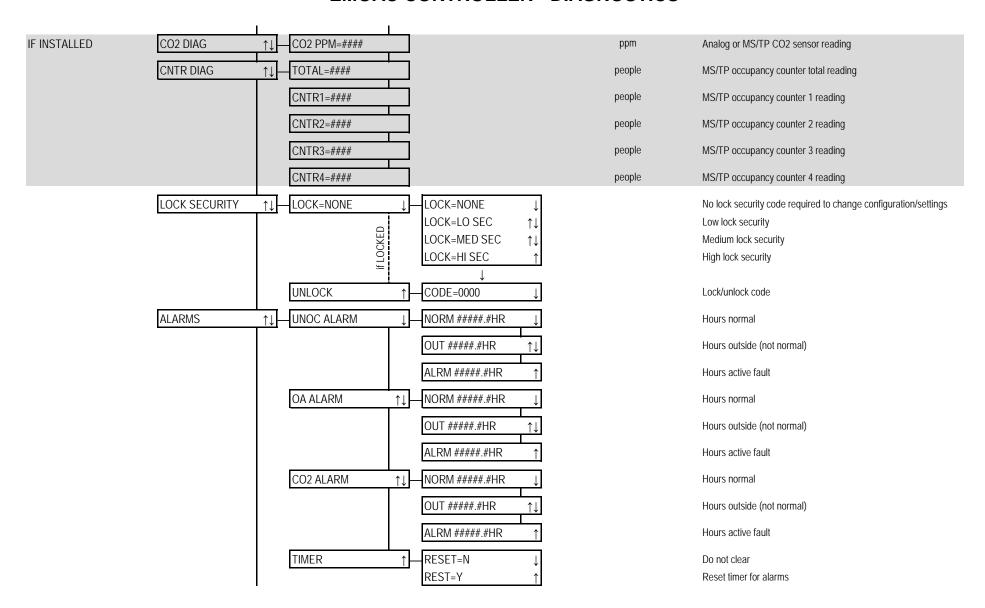


EMOAC CONTROLLER - DIAGNOSTICS

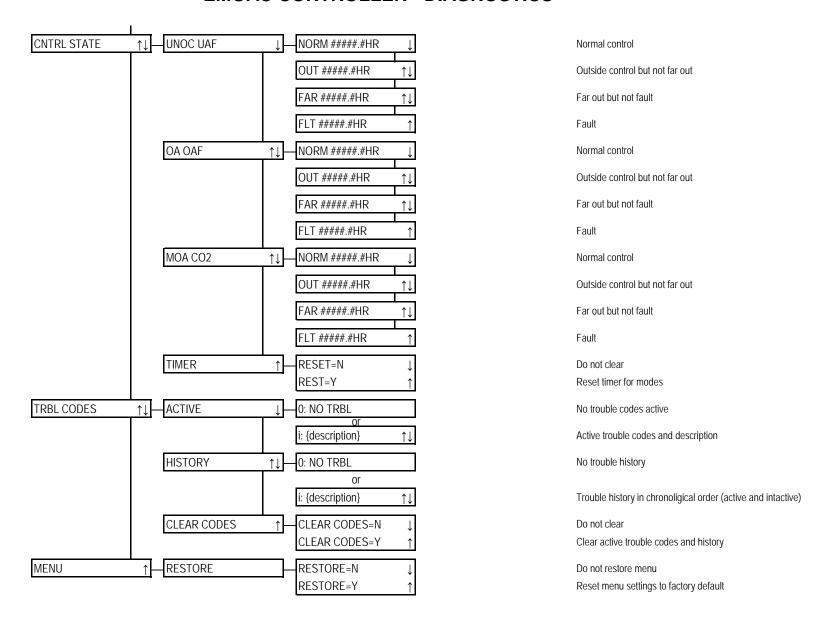
Open by simultaneously pressing {ESC} \(\tau\) during normal operation. Follow navigation rules below.



EMOAC CONTROLLER - DIAGNOSTICS



EMOAC CONTROLLER - DIAGNOSTICS



POWER UP DISPLAY

Automatic after power up. {ESC} changes to normal or after 30 second timeout.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	
EMOAC-5000	Display Series and Board Model
F I R M W R E # # . # #	Display Firmware Version
0 A F P 1 ###	P1 Presence: YES, NO
0 A F P 2 ###	P1 Presence: YES, NO
ECO FAULT ###	ECO Fault: OFF, ON
C 0 2 T Y P E # # # # #	CO2 Type: NONE, ANLG, MS/TP
N 1 D E V I C E S # # # #	N1 DEVICES (N1 DEV): NONE, SENS, BAS
C 0 2 M S / T P # # # #	NONE, ERR or Last 4 digits of DI*
CNTR1 MS/TP ####	NONE, ERR or Last 4 digits of DI*
CNTR2 MS/TP ####	NONE, ERR or Last 4 digits of DI*
CNTR2 MS/TP ####################################	NONE, ERR or Last 4 digits of DI*
C N T R 4 M S / T P # # # #	NONE, ERR or Last 4 digits of DI*
R 1 A S G N # # # # #	R1 Assignment: ALRMS or MODE

* Notes:

NONE - Sensor not conigured

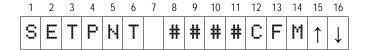
ERR - Configured sensor not found when N1 DEVICES=BAS (Operate in PASS MODE if MOAC = CO2 or OAF/CO2)

ERR - Configured sensor not found after discovery delay when N1 DEVICES=SENS (Operate in PASS MODE if MOAC = CO2 or OAF/CO2)

Last 4 digits of DI - Configured sensor found

SETPOINT DISPLAY (OAC=FLOW)

Press ↑ or ↓ arrow to enter setpoint display mode. Use ↑ or ↓ to change setpoint. Exit setpoint mode after 15 seconds.



Display Active Setpoint

NORMAL OPERATING DISPLAY (OAC=FLOW, CO2/OAF or COUNT)

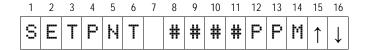
↑ or ↓ arrows changes setpoint.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
#	#	#	#	С	F	М						Χ	Χ	X	X	Display Airflow (Control state=Normal) and Mode
#	#	#	#	С	F	М	+					Χ	Χ	Χ	X	Display Airflow + (Control state=Outside High) and Mode
#	#	#	#	С	F	М						Χ	Χ	Χ	X	Display Airflow - (Control state=Outside Low) and Mode
#	#	#	#	С	F	M	+	+				Χ	Χ	Χ	X	Display Airflow ++ (Control state=Far Out High) and Mode
#	#	#	#	С	F	M						Χ	Χ	Χ	X	Display Airflow (Control state=Far Out Low) and Mode
#	#	#	#	С	F	M	+	+				Χ	Χ	Χ	X	Display Airflow ++ flashes (Control state=Active Control Fault High) and Mode
#	#	#	#	С	F	М		_				Χ	Χ	Χ	X	Display Airflow flashes (Control state=Active Control Fault Low) and Mode
#	#	#	#	С	F	M	?	?		T		Χ	Χ	Χ	X	Display Airflow, {?? = control state}, TRBL Alarm Active and Mode
#	#	#	#	С	F	M	?	?		U		Χ	Χ	X	X	Display Airflow, {?? = control state}, UNOC Alarm Active and Mode
#	#	#	#	С	F	М	?	?		M		Χ	Χ	Χ	X	Display Airflow, {?? = control state}, MOA Alarm Active and Mode
#	#	#	#	С	F	М	?	?		С		Χ	Χ	Χ	X	Display Airflow, {?? = control state}, CO2 Alarm Active and Mode

Note: Multiple active alarms will cycle on display. Escape clears manual active alarms.

SETPOINT DISPLAY (OAC=CO2)

Press ↑ or ↓ arrow to enter setpoint display mode. Use ↑ or ↓ to change setpoint. Exit setpoint mode after 15 seconds.



Display Active Setpoint

NORMAL OPERATING DISPLAY (OAC=CO2)

↑ or ↓ arrows changes setpoint.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
#	#	#	#	P	Ρ	M						X	Χ	X	X	Display CO2 (Control state=Normal) and Mode
#	#	#	#	P	Ρ	М	+					Χ	Χ	Χ	X	Display CO2 + (Control state=Outside High) and Mode
#	#	#	#	Р	Ω.	М	-					Χ	Χ	Χ	Χ	Display CO2 - (Control state=Outside Low) and Mode
#	#	#	#	Ρ	Ρ	М	+	+				Χ	Χ	Χ	Χ	Display CO2 ++ (Control state=Far Out High) and Mode
#	#	#	#	Ρ	Ρ	M	_	_				Χ	Χ	Χ	Χ	Display CO2 (Control state=Far Out Low) and Mode
#	#	#	#	Р	Ρ	М	+	+				Χ	Χ	Χ	Χ	Display CO2 ++ flashes (Control state=Active Control Fault High) and Mode
#	#	#	#	P	Ρ	M	_					Χ	Χ	X	X	Display CO2 flashes (Control state=Active Control Fault Low) and Mode
#	#	#	#	Р	Ρ	М	?	?		Т		Χ	Χ	Χ	Χ	Display CO2, {?? = control state}, TRBL Alarm Active and Mode
#	#	#	#	Р	Ρ	M	?	?		U		X	Χ	X	Χ	Display CO2, {?? = control state}, UNOC Alarm Active and Mode
#	#	#	#	P	P	M	?	?		С		X	Χ	X	X	Display CO2, {?? = control state}, CO2 Alarm Active and Mode

Note: Multiple active alarms will cycle on display. Escape clears manual active alarms.

NORMAL OPERATING DISPLAY (OAC=FIXED or PASS)

MOAC=FIXED: Setpoint changed in SETUP CONFIG (MIN POS).

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
#	#	#	#	С	H.	M						Χ	Χ	X	Χ
#	#	#	#	С	F	M				T		X	Χ	Χ	Χ
#	#	#	#	С	F	M				M		Χ	Χ	Χ	X
#	#	#	#	С	F	M				С		Χ	Χ	Χ	Χ

Display airflow and Mode

Display Airflow, TRBL Alarm Active and Mode

Display Airflow, MOA Alarm Active and Mode

Display Airflow, CO2 Alarm Active and Mode

Note: Multiple active alarms will cycle on display. Escape clears manual active alarms.

DETAIL DISPLAY

Press {ENT} to show itemized, {ESC} from itemized returns to normal or after 60 second timeout. Display will step through the following items. Some items are OAC dependent.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	
MODE XXXX	Active Mode, OFF, UNOC, MOA, ECON, FRZE
OACXXXXXX	OAC method
DMPR ###%	Current Damper Position
SETPNT ####%	Setpoint if OAC=FIXED
S E T P N T	Setpoint if OAC=FLOW, CO2/OAF, or COUNT
0 A F # # # # C F M	Measured airflow
S E T P N T	Setpoint if OAC=CO2
C 0 2 # # # # P P M	Display measured CO2 level (if CO installed)
P 0 P E S T #####	Display calculated occupancy using CO2/OAF (if CO2 installed)
C O U N T E R ####	Display counter occupancy (if counter installed)