### **OAC 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 (Belimo MP-bus with 3000 and 3000S models)            |
| 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 28 to save settings. Press {ESC} twice at any time to exit without saving changes.

| ITEM# | PARAMETER            |       | DESCRIPTION   | SKIP TO |
|-------|----------------------|-------|---|---------|
| 1     | N1 DEVICES           | SENS  | No BACnet MS/TP devices connected to network N1.  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     | ITEMS 2 and 3 are or |       | 4000 and 5000 controllers.  |         |
| 3     | ACTR SGNL            | 0-5V  | 0-5 VDC actuator control signal, 0% to 100% of full span.   |         |
|       |                      | 0-10V | 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.  |         |
| 4     | BI1 SGNL             |       | 0-24 VAC binary input.  |         |
|       |                      | DC    | 0-24 VDC binary input.  |         |
|       |                      |       | Note: GP1 is factory configured as a binary input.  |         |
| 5     | BI1 TRIG             | HI    | Occupied mode is active above the binary threshold.   |         |
|       |                      | LO    | Occupied mode is active below the binary threshold.   |         |
|       |                      |       | Note: The binary threshold is 7VAC/VDC with 3000 and 3000A models and 7VAC/3VDC with 4000 and 5000 models.  |         |
| 5     | OAF AREA             |       | 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              |       | No CO2 sensor connected.  | 9       |
|       |                      | ANLG  | 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       |

## **OAC HARDWARE CONFIGURATION**

| 7  | CO2 SGNL    | 0-5V                    | 0-5 VDC output CO2 sensor installed.  |          |
|----|-------------|-------------------------|---|----------|
| '  | 002 00NE    |                         | 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      | 2000                    | CO2 sensor full scale reading, 1,000 to 10,000 ppm.   |          |
| 9  | 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.   |          |
|    |             |                         | 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     | NONE                    | Relay R1 not assigned.  | 13       |
|    |             |                         | R1 assigned to EMOAC notification alarms bound to R1.   | 13       |
|    |             |                         | R1 assigned to the active control mode.   |          |
| 12 | R1 ACTMOD   | OCCUNO                  | R1 active during occupied and unoccupied modes.   |          |
|    |             |                         | R1 active during occupied mode.   |          |
|    |             | UNOC                    | R1 active during unoccupied mode.   |          |
|    |             | nly visible if N1 DEVIC | ES is equal to BAS.   |          |
| 14 | N1 BAUD     | 76800                   | N1 newtork baud rate of 76,800 bps.   |          |
|    |             | 38400                   | 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.   |          |
|    | N1 DEV MAC  |                         | The MAC address of this device on the N1 network, 0 to 127.                                   |          |
|    | DEV DI      |                         | The device instance number of this device on the N1 network, 0 to 4,194,302.                  |          |
|    |             | e if CO2 TYP is equal   |   |          |
|    | CO2 DI      | 21                      | The device instance number of the CO2 sensor on the N1 network, 0 to 4,194,302                |          |
|    |             |                         | Il to MS/TP and NUM CNTRS is greater than or equal to 1.                                      |          |
|    | CNTR1 DI    |                         | The device instance number of counter 1 on the N1 network, 0 to 4,194,302.                    | <u> </u> |
|    |             |                         | 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.                    | <u></u>  |
|    |             |                         | Il 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.                    | <u> </u> |
|    |             |                         | Il 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.                    |          |
| 28 | DONE        |                         | Save changes and return to normal operation.  |          |
|    |             |                         | Do not save changes and return to normal operation.   |          |
|    |             | RESET                   | Reset to factory default configuration and return to normal operation.                        |          |

### **OAC FIRMWARE CONFIGURATION**

#### FACTORY DEFAULT FIRMWARE CONFIGURATION

| Outdoor Air Control (OAC)   | FLOW (modulating airflow setpoint outdoor airflow control during occupied mode)     |
|-----------------------------|---|
| Occupied 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 unoccupied mode is active)                             |

#### **CUSTOM FIRMWARE CONFIGURATION**

Open by simultaneously pressing ↑↓ 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.

| 1 ( | OAC    |         | DESCRIPTION   | SKIP TO |
|-----|--------|---------|---|---------|
|     |        | 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      |
|     |        |         | 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 |         | 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 1 | MET    |         | 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 - |        |         | between ventilation and indoor CO2 levels.  |         |
| 4 F | RP     |         | Ventilation zone required airflow rate, 0 to 50 cfm/person [0 to 10 lps/person].  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 F | RA     |         | Ventilation zone required airflow rate, 0 to 1 cfm/sq ft [0 to 5 lps/sq m].   |         |
| J   | NA .   |         | Note: Ra is generally determined using ASHRAE Standard 62.1. The default value does not   |         |
|     |        |         | meet the requirements of the Standard.  |         |
| 6 / | ĄΖ     |         | Ventilation zone floor area, 0 to 99,999 sq ft [0 to 9,999 sq m].   |         |
|     | ٦٢.    |         | Note: Az must be entered if Ra is greater than 0.   |         |
| 7 F | EZ     |         | 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 E | EVZ    |         | Ventilation efficiency, 0.1 to 1.   | 11      |
|     |        |         | <b>,</b>  |         |
|     |        |         | Note: Using an estimated value for Evz can improve DCV peformance on multi-zone systems.  |         |

## **OAC FIRMWARE CONFIGURATION**

| _   | I               |  |          |
|-----|-----------------|--|----------|
| 9   | OA SET          | Occupied outdoor airflow setpoint, 0 to 9,999 cfm [0 to 5,000 lps].  | 13       |
|     |                 | Note: The minimum outdoor airflow setpoint can be modified at any time during normal   |          |
|     |                 | operation by pressing the ↑ or ↓buttons.   |          |
| 10  | CO2 SET         | 1000 CO2 setpoint, 500 to 2,000 ppm.   |          |
|     |                 | Note:The CO2 setpoint can be modified at any time during normal operation by pressing the ↑  |          |
|     |                 | or ↓buttons.   |          |
| 11  | DCV MIN         | O Lower ventilation rate limit during DCV, 0 to DCV MAX cfm [lps]  |          |
|     |                 | Note: DCV MIN limits the minimmum ventilation rate setpoint rather than fixed damper   |          |
|     |                 | 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 cfm [5,000 lps]   |          |
| 12  | DCV IVIAX       | The state of the s |          |
|     |                 | Note: DCV MAX limits the maximum ventilation rate setpoint rather than fixed damper  |          |
|     |                 | position. 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 alarm if the CO2-DCV  |          |
|     |                 | method uncertaintly would result in over-ventilation at high occupancy levels. Setting DCV   |          |
|     |                 | MAX to NONE will not limit ventilation and maintain the CO2 level specified.   |          |
| 13  | UNOC SET        | Unoccupied mode airflow setpoint, 0 to 9,999 cfm [0 to 5,000 lps].   |          |
|     | 1               | Note: The unoccupied airflow setpoint will be maintained whenever UN/OFF is set to UNOC in   |          |
|     |                 | step 14 or via BACnet.   |          |
| 14  | UN/OFF          | OFF Off Mode: The actuator output signal will be set to 0% when occupied mode is inactive.   |          |
| 14  | OIW/OI F        | UNOC Unoccupied Mode: Modulate to maintain UNOC SET when occupied mode is inactive.  |          |
| 10  | MIN POS         | 10% Minimum fixed damper position, 0% to 100% of full stroke.  |          |
| 15  | IVIIIN PUS      |  |          |
|     |                 | Note: MIN POS is used as the default damper position during active fault conditions when   |          |
|     | _               | UNOC or OA modes are active.   |          |
| 16  |                 | only visible if OAC is set to FLOW, CO2, CO2/OAF or COUNT.   |          |
| 17  | UNOC ALARM      | OFF UNOC mode airflow notification alarm disabled.   | 2        |
|     |                 | 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.   |          |
|     |                 | HI High airflow alarm. Active above SETPNT + TOL after specified DELAY.  |          |
|     |                 | HI/LO High/Low airflow alarm. Active above/below SETPNT $\pm$ TOL after specified DELAY.   |          |
| 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%   |          |
|     | DELAY           | 1 Delay, 0 to 30 minutes, after alarm is "outside" of tolerance before alarm is active.  |          |
| 23  |                 | NOT visible if MOAC is set to CO2 (MOA airflow alarm is not available when MOAC is set to CO2).  |          |
| 24  | OA ALARM        | OFF Occupied mode airflow notification alarm disabled.   | 3        |
| ۷.  | O7 (7 LE TITAL) | MAN Occupied mode airflow notification alarm enabled. Manual reset required.   |          |
|     |                 | AUTO Occupied mode airflow notification alarm enabled. Automatic reset with return to in tolerance.  |          |
| ) E | R1 BIND         | NO Do not bind active alarm to relay, R1.  | $\vdash$ |
| 25  | עווש וא         |  |          |
| 27  | TVDE            | 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.   |          |
|     | 1               | HI 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].  |          |
|     | 1               | Note:The default {} value for SETPNT is OA SET when OAC is set to FLOW, the calculated   |          |
|     |                 | active airflow setpoint when OAC is set to OAF/CO2 or COUNT, or 0 when OAC is set to   |          |
|     | 1               | FIXED or PASS.   |          |
| 0.0 | TO.             |  |          |
| 28  | TOL             | 15% Alarm tolerance, ½ OAF PID deadband tolerance to 50%   |          |
| 29  | DELAY           | 1 Delay, 0 to 30 minutes, after alarm is "outside" of tolerance before alarm is active.  | <u> </u> |
| 30  |                 | nly visible if CO2 TYP is equal to ANLG or MS/TP (i.e. a CO2 sensor is installed).   |          |
| ·)1 | CO2 ALARM       | OFF All mode CO2 notification alarm disabled.  | 3        |
| 31  |                 |  |          |
| 31  |                 | MAN All mode CO2 notification alarm enabled. Manual reset required.  AUTO All mode CO2 notification alarm enabled. Automatic reset with return to in tolerance.  |          |

## **OAC FIRMWARE CONFIGURATION**

| 32 | R1 BIND    | NO Do     | o not bind active alarm to relay, R1.  |    |
|----|------------|-----------|--|----|
|    |            | YES Bir   | nd active alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.).       |    |
| 33 | TYPE       | HI Hiç    | gh CO2 alarm. Active below SETPNT - TOL after specified DELAY.                       |    |
| 34 | SETPNT     | {} Ala    | arm setpoint, in ppm.  |    |
|    |            | No        | ote:The default {} value for SETPNT is CO2 SET when OAC is set to CO2, or 1,000 when |    |
|    |            | OF        | AC is set to FLOW, CO2/OAF, COUNT, FIXED or PASS.                                    |    |
|    |            | Im        | pportant: 1,000 ppm may be exceeded whenever 18 cfm [3.4 lps] or less is provided to |    |
|    |            |           | edentary adults even though the ventilation rate provided may meet the requirement   |    |
|    |            | of.       | ASHRAE standard 62.1.  |    |
| 35 | TOL        | 15% Ala   | arm tolerance, ½ CO2 PID deadband tolerance to 50%                                   |    |
| 36 | DELAY      | 10 De     | elay, 0 to 30 minutes, after alarm is "outside" of tolerance before alarm is active. |    |
| 37 | TRBL ALARM | OFF Sy:   | stem status notification alarm disabled.   | 39 |
|    |            | MAN Sy    | stem status notification alarm enabled. Manual reset required.                       |    |
|    |            | AUTO Sy   | stem status notification alarm enabled. Automatic reset with return to in tolerance. |    |
| 38 | R1 BIND    | NO Do     | o not bind active alarm to relay, R1.  |    |
|    |            | YES Bir   | nd active alarm to relay, R1 (requires R1 ASGN=ALRMS during hardware config.).       |    |
| 39 | DONE       | SAVE Sa   | ave changes and return to normal operation.  |    |
|    |            | CANCEL Do | o not save changes and return to normal operation.                                   |    |
|    |            | RESET Re  | eset to factory default configuration and return to normal operation.                |    |

## **OAC SCHEDULE CONFIGURATION**

### SCHEDULE CONFIGURATION

Open by simultaneously pressing \( \{EN\} \) 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"

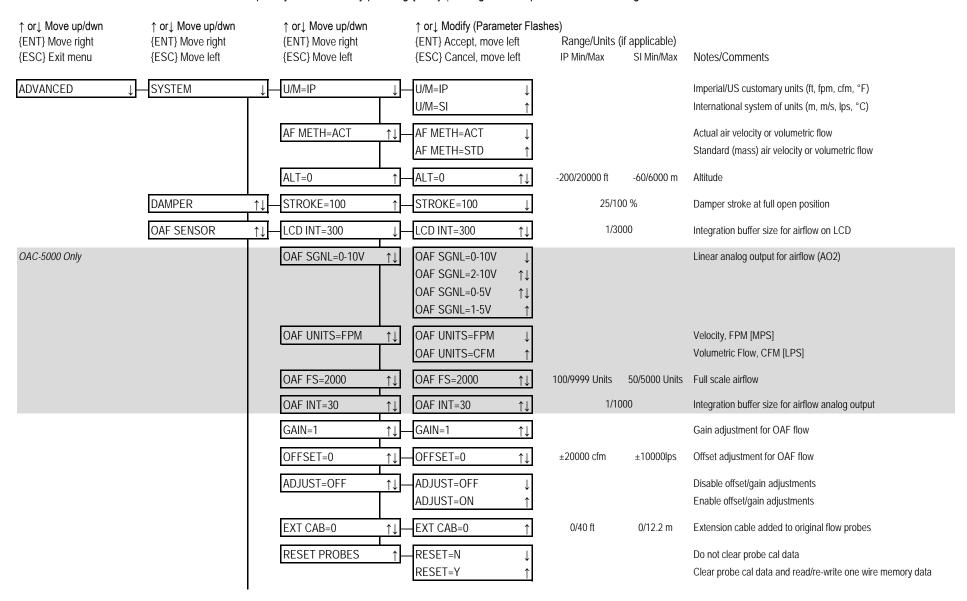
If LOCK SECURITY<>NONE using the SETUP MENU pressing enter will indicate "CONFIG LOCKED" and only parameter viewing is allowed.

Navigate entire menu to step 25 to save settings. Press (ESC) twice at any time to exit without saving changes.

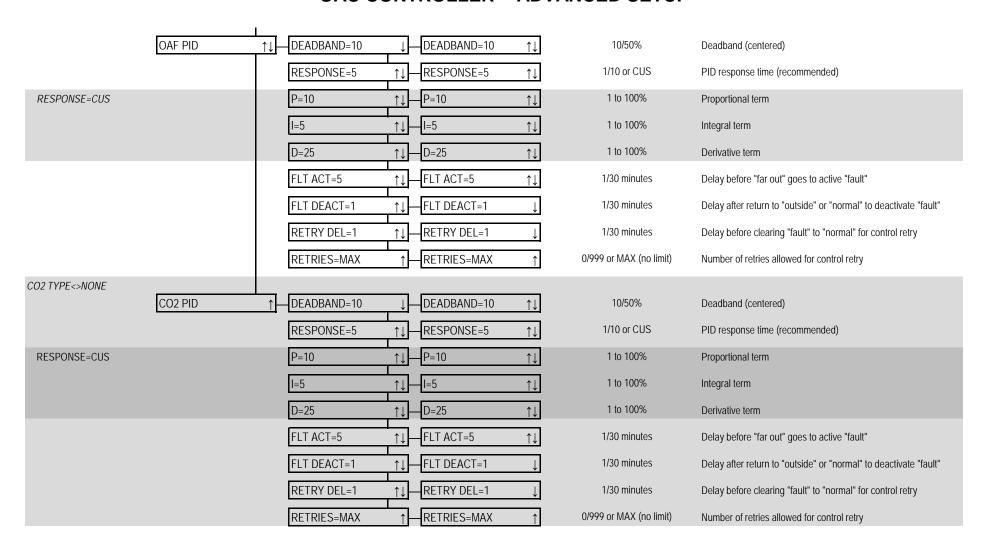
| Second Parameters   Value   Description   Parameters   Description   Parameters     |          | 1           |          |  |     |
|--|----------|-------------|----------|--|-----|
| 1 TIME 12.00 AM Time of day. 2 MONTH 1 Month. 3 DAY 1 Day of month. 4 YEAR 2017 Year. 5 TRIG ENABLE YES The binary trigger must be enabled for OCC or UNOC modes to be active. NO OCC and UNOC modes are determined only by the schedule. 6 SCHED OFF No schedule set. DAYS Allows a different occupied start time and duration to be entered for each day of the week. WEEKS Allows a different occupied start time and duration to be entered for weekdays and weekends. 7 M-F OCC OFF Set the occupied start time for Monday to Friday. OFF or time of day. 12:00 AM  | # /      | DADAMETED   |          | DECORPTION   | 1   |
| 1 TIME 12.00 AM Time of day. 2 MONTH 1 Month. 3 DAY 1 Day of month. 4 YEAR 2017 Year. 5 TRIG ENABLE YES The binary trigger must be enabled for OCC or UNOC modes to be active. NO OCC and UNOC modes are determined only by the schedule. 6 SCHED OFF No schedule set. DAYS Allows a different occupied start time and duration to be entered for each day of the week. WEEKS Allows a different occupied start time and duration to be entered for weekdays and weekends. 7 M-F OCC OFF Set the occupied start time for Monday to Friday. OFF or time of day. 12:00 AM  |          | PARAMETER   | VALUE    | DESCRIPTION  | ⟨IP |
| 2 MONTH 3 DAY 1 Day of month. 4 YEAR 2017 Year. 5 TRIG ENABLE YES The binary trigger must be enabled for OCC or UNOC modes to be active. NO OCC and UNOC modes are determined only by the schedule.  6 SCHED OFF No schedule set. DAYS Allows a different occupied start time and duration to be entered for each day of the week. WEEKS Allows a different occupied start time and duration to be entered for each day of the week. WEEKS Allows a different occupied start time and duration to be entered for weekdays and weekends.  7 MF OCC OFF Set the occupied start time for Monday to Friday, OFF or time of day. 12:00 AM 8 OCC HRS 0.0 Set the occupied duration, in hours, for Monday to Friday. 12:00 AM 12:00 AM 10 OCC HRS 0.0 Set the occupied duration, in hours, for Saturday and Sunday, OFF or time of day. 12:00 AM 12:00 AM 12:00 AM 12:00 AM 12:00 AM 14 OCC HRS 0.0 Set the occupied duration, in hours, for Monday, OFF or time of day. 12:00 AM 14 OCC HRS 0.0 Set the occupied duration, in hours, for Monday. 15 WED OCC OFF Set the occupied duration, in hours, for Tuesday. 16 OCC HRS 0.0 Set the occupied duration, in hours, for Tuesday. 0.0 Set the occupied start time for Tuesday, OFF or time of day. 12:00 AM 16 OCC HRS 0.0 Set the occupied duration, in hours, for Tuesday. 0.0 Set the occupied start time for Wednesday, OFF or time of day. 12:00 AM 18 OCC HRS 0.0 Set the occupied duration, in hours, for Thursday, OFF or time of day. 12:00 AM 18 OCC HRS 0.0 Set the occupied start time for Thursday, OFF or time of day. 12:00 AM 12:00 AM 12:00 AM 13 TOUR OCC OFF Set the occupied start time for Thursday, OFF or time of day. 12:00 AM 13 TOUR OCC OFF Set the occupied start time for Thursday, OFF or time of day. 13 TOUR OCC OFF Set the occupied start time for Thursday, OFF or time of day. 14 OCC HRS 0.0 Set the occupied start time for Thursday, OFF or time of day. 15 OCC HRS 0.0 Set the occupied start time for Thursday, OFF or time of day. 16 OCC HRS 0.0 Set the occupied start time for Thursday, OFF or time of day. 17 TOUR OCC OFF Set the o |          |             |          |  | Š   |
| 3 DAY 1 Day of month. 4 YEAR 2017 Year. 5 TRIG ENABLE YES The binary trigger must be enabled for OCC or UNOC modes to be active. NO OCC and UNOC modes are determined only by the schedule. 6 SCHED OFF No schedule set. DAYS Allows a different occupied start time and duration to be entered for each day of the week. 11 WEEKS Allows a different occupied start time and duration to be entered for weekdays and weekends. 7 M-F OCC OFF Set the occupied start time for Monday to Friday, OFF or time of day. 12:00 AM 8 OCC HRS 0.0 Set the occupied duration, in hours, for Monday to Friday. 9 S-S OCC OFF Set the occupied start time for Saturday and Sunday, OFF or time of day. 12:00 AM 10 OCC HRS 0.0 Set the occupied duration, in hours, for Saturday and Sunday, OFF or time of day. 12:00 AM 10 OCC HRS 0.0 Set the occupied duration, in hours, for Monday. 12:00 AM 12:00 AM 13 TUE OCC OFF Set the occupied duration, in hours, for Monday. 14 OCC HRS 0.0 Set the occupied duration, in hours, for Monday. 15 WED OCC OFF Set the occupied duration, in hours, for Tuesday. 16 OCC HRS 0.0 Set the occupied duration, in hours, for Tuesday. 17 THU OCC OFF Set the occupied duration, in hours, for Tuesday. 18 OCC HRS 0.0 Set the occupied duration, in hours, for Tuesday. 19 FR OCC OFF Set the occupied duration, in hours, for Thursday. 19 FR OCC OFF Set the occupied duration, in hours, for Thursday. 19 FR OCC OFF Set the occupied duration, in hours, for Thursday. 19 FR OCC OFF Set the occupied duration, in hours, for Thursday. 19 FR OCC OFF Set the occupied duration, in hours, for Further of day. 12:00 AM 20 OCC HRS 0.0 Set the occupied duration, in hours, for Further of day. 12:00 AM 21:00 AM 22 OCC HRS 0.0 Set the occupied duration, in hours, for Futher of day. 23 SUN OCC OFF Set the occupied duration, in hours, for Futher of day. 24 OCC HRS 0.0 Set the occupied duration, in hours, for Futher of day. 25 DONE SAVE Save changes and return to normal operation.   |          |             |          |  |     |
| 4 YEAR 5 TRIG ENABLE FIG. ENAB |          |             | 1        |  |     |
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| 14 OCC HRS  OC HRS  OC OFF Set the occupied duration, in hours, for Tuesday.  15 WED OCC  OFF Set the occupied start time for Wednesday, OFF or time of day.  12:00 AM  16 OCC HRS  O.0 Set the occupied duration, in hours, for Wednesday.  17 THU OCC  OFF Set the occupied start time for Thursday, OFF or time of day.  12:00 AM  18 OCC HRS  O.0 Set the occupied duration, in hours, for Thursday.  19 FRI OCC  OFF Set the occupied start time for Friday, OFF or time of day.  12:00 AM  20 OCC HRS  O.0 Set the occupied duration, in hours, for Friday.  21 SAT OCC  OFF Set the occupied start time for Saturday, OFF or time of day.  12:00 AM  22 OCC HRS  O.0 Set the occupied duration, in hours, for Saturday.  23 SUN OCC  OFF Set the occupied duration, in hours, for Saturday.  24 OCC HRS  O.0 Set the occupied start time for Sunday, OFF or time of day.  12:00 AM  24 OCC HRS  O.0 Set the occupied duration, in hours, for Saturday.  Save changes and return to normal operation.  CANCEL  Do not save changes and return to normal operation.   | 13       | TUE OCC     |          |  |     |
| 15 WED OCC  OFF 12:00 AM  16 OCC HRS  0.0 Set the occupied duration, in hours, for Wednesday.  17 THU OCC  OFF Set the occupied duration, in hours, for Wednesday.  18 OCC HRS  0.0 Set the occupied duration, in hours, for Thursday, OFF or time of day.  12:00 AM  18 OCC HRS  0.0 Set the occupied duration, in hours, for Thursday.  19 FRI OCC  OFF Set the occupied start time for Friday, OFF or time of day.  12:00 AM  20 OCC HRS  0.0 Set the occupied duration, in hours, for Friday.  21 SAT OCC  OFF Set the occupied start time for Saturday, OFF or time of day.  12:00 AM  22 OCC HRS  0.0 Set the occupied duration, in hours, for Saturday.  23 SUN OCC  OFF Set the occupied duration, in hours, for Saturday.  24 OCC HRS  0.0 Set the occupied start time for Sunday, OFF or time of day.  12:00 AM  24 OCC HRS  0.0 Set the occupied duration, in hours, for Sunday.  SAVE Save changes and return to normal operation.  CANCEL Do not save changes and return to normal operation.   |          |             |          |  |     |
| 12:00 AM  16 OCC HRS  0.0 Set the occupied duration, in hours, for Wednesday.  17 THU OCC  OFF Set the occupied start time for Thursday, OFF or time of day.  12:00 AM  18 OCC HRS  0.0 Set the occupied duration, in hours, for Thursday.  OFF Set the occupied start time for Friday, OFF or time of day.  12:00 AM  20 OCC HRS  0.0 Set the occupied duration, in hours, for Friday.  21 SAT OCC  OFF Set the occupied start time for Saturday, OFF or time of day.  12:00 AM  22 OCC HRS  0.0 Set the occupied duration, in hours, for Saturday.  OFF Set the occupied duration, in hours, for Saturday.  23 SUN OCC  OFF Set the occupied start time for Sunday, OFF or time of day.  12:00 AM  24 OCC HRS  0.0 Set the occupied duration, in hours, for Sunday.  Set the occupied duration, in hours, for Sunday.  Done SAVE Save changes and return to normal operation.  CANCEL  Do not save changes and return to normal operation.   |          |             |          |  |     |
| 16 OCC HRS 17 THU OCC 18 OFF Set the occupied duration, in hours, for Wednesday. 19 FRI OCC 19 FRI OCC 20 OFF Set the occupied duration, in hours, for Thursday. 20 OCC HRS 20 OCC HRS 20 OCC HRS 30.0 Set the occupied duration, in hours, for Friday. 21 SAT OCC 32 OCC HRS 33 OCC 34 OCC HRS 35 OCC 35 OCC HRS 36 OCC 36 OCC HRS 37 OCC 38 OCC HRS 38 OCC 39 OCC HRS 30  | 15       | WED OCC     | OFF      | Set the occupied start time for Wednesday, OFF or time of day.           |     |
| 17 THU OCC  OFF Set the occupied start time for Thursday, OFF or time of day.  12:00 AM  18 OCC HRS  0.0 Set the occupied duration, in hours, for Thursday.  OFF Set the occupied start time for Friday, OFF or time of day.  12:00 AM  20 OCC HRS  0.0 Set the occupied duration, in hours, for Friday.  21 SAT OCC  OFF Set the occupied start time for Saturday, OFF or time of day.  12:00 AM  22 OCC HRS  0.0 Set the occupied duration, in hours, for Saturday.  OFF Set the occupied duration, in hours, for Saturday.  23 SUN OCC  OFF Set the occupied start time for Sunday, OFF or time of day.  12:00 AM  24 OCC HRS  0.0 Set the occupied duration, in hours, for Sunday.  Set the occupied duration, in hours, for Sunday.  Done Save changes and return to normal operation.  CANCEL  Do not save changes and return to normal operation.   |          |             | 12:00 AM |  |     |
| 12:00 AM  18 OCC HRS  0.0 Set the occupied duration, in hours, for Thursday.  19 FRI OCC  OFF Set the occupied start time for Friday, OFF or time of day.  12:00 AM  20 OCC HRS  0.0 Set the occupied duration, in hours, for Friday.  21 SAT OCC  OFF Set the occupied start time for Saturday, OFF or time of day.  12:00 AM  22 OCC HRS  0.0 Set the occupied duration, in hours, for Saturday.  23 SUN OCC  OFF Set the occupied duration, in hours, for Saturday.  24 OCC HRS  0.0 Set the occupied start time for Sunday, OFF or time of day.  25 DONE  SAVE Save changes and return to normal operation.  Do not save changes and return to normal operation.   |          |             |          |  |     |
| 18 OCC HRS 19 FRI OCC OFF Set the occupied start time for Friday, OFF or time of day. 12:00 AM  20 OCC HRS 0.0 Set the occupied duration, in hours, for Friday.  21 SAT OCC OFF Set the occupied start time for Saturday, OFF or time of day. 12:00 AM  22 OCC HRS 0.0 Set the occupied duration, in hours, for Saturday.  23 SUN OCC OFF Set the occupied duration, in hours, for Saturday.  24 OCC HRS 0.0 Set the occupied start time for Sunday, OFF or time of day. 12:00 AM  24 OCC HRS 0.0 Set the occupied duration, in hours, for Sunday.  Set the occupied duration, in hours, for Sunday.  DONE SAVE Save changes and return to normal operation.  CANCEL Do not save changes and return to normal operation.   | 17       | THU OCC     | OFF      | Set the occupied start time for Thursday, OFF or time of day.            |     |
| 19 FRI OCC OFF Set the occupied start time for Friday, OFF or time of day. 12:00 AM  20 OCC HRS 0.0 Set the occupied duration, in hours, for Friday. 21 SAT OCC OFF Set the occupied start time for Saturday, OFF or time of day. 12:00 AM  22 OCC HRS 0.0 Set the occupied duration, in hours, for Saturday. 23 SUN OCC OFF Set the occupied start time for Sunday, OFF or time of day. 12:00 AM  24 OCC HRS 0.0 Set the occupied duration, in hours, for Sunday. 25 DONE SAVE Save changes and return to normal operation. CANCEL Do not save changes and return to normal operation.  |          |             | 12:00 AM |  |     |
| 12:00 AM  20 OCC HRS  0.0 Set the occupied duration, in hours, for Friday.  21 SAT OCC  OFF Set the occupied start time for Saturday, OFF or time of day.  12:00 AM  22 OCC HRS  0.0 Set the occupied duration, in hours, for Saturday.  23 SUN OCC  OFF Set the occupied start time for Sunday, OFF or time of day.  12:00 AM  24 OCC HRS  0.0 Set the occupied duration, in hours, for Sunday.  Set the occupied duration, in hours, for Sunday.  25 DONE  SAVE Save changes and return to normal operation.  CANCEL  Do not save changes and return to normal operation.  | 18       | OCC HRS     |          |  |     |
| 20 OCC HRS  21 SAT OCC  OFF Set the occupied duration, in hours, for Friday.  22 OCC HRS  0.0 Set the occupied duration, in hours, for Saturday, OFF or time of day.  23 SUN OCC  OFF Set the occupied duration, in hours, for Saturday.  OCC HRS  0.0 Set the occupied start time for Sunday, OFF or time of day.  12:00 AM  24 OCC HRS  0.0 Set the occupied duration, in hours, for Sunday.  Set the occupied duration, in hours, for Sunday.  DONE  SAVE Save changes and return to normal operation.  CANCEL  Do not save changes and return to normal operation.   | 19       | FRI OCC     | OFF      | Set the occupied start time for Friday, OFF or time of day.              |     |
| 21 SAT OCC  OFF Set the occupied start time for Saturday, OFF or time of day.  12:00 AM  22 OCC HRS  0.0 Set the occupied duration, in hours, for Saturday.  OFF Set the occupied start time for Sunday, OFF or time of day.  12:00 AM  24 OCC HRS  0.0 Set the occupied duration, in hours, for Sunday.  Set the occupied duration, in hours, for Sunday.  SAVE Save changes and return to normal operation.  CANCEL Do not save changes and return to normal operation.  |          |             | 12:00 AM |  |     |
| 12:00 AM  22 OCC HRS  0.0 Set the occupied duration, in hours, for Saturday.  23 SUN OCC  OFF Set the occupied start time for Sunday, OFF or time of day.  12:00 AM  24 OCC HRS  0.0 Set the occupied duration, in hours, for Sunday.  Set the occupied duration, in hours, for Sunday.  Solve the occupied duration, in hours, for Sunday.  Solve Save changes and return to normal operation.  CANCEL Do not save changes and return to normal operation.  | 20       | OCC HRS     | 0.0      | Set the occupied duration, in hours, for Friday.                         |     |
| 12:00 AM  22 OCC HRS  0.0 Set the occupied duration, in hours, for Saturday.  23 SUN OCC  OFF Set the occupied start time for Sunday, OFF or time of day.  12:00 AM  24 OCC HRS  0.0 Set the occupied duration, in hours, for Sunday.  Set the occupied duration, in hours, for Sunday.  Solve the occupied duration, in hours, for Sunday.  Solve Save changes and return to normal operation.  CANCEL Do not save changes and return to normal operation.  | 21       |             |          |  |     |
| 23 SUN OCC  OFF Set the occupied start time for Sunday, OFF or time of day.  12:00 AM  24 OCC HRS  0.0 Set the occupied duration, in hours, for Sunday.  SAVE Save changes and return to normal operation.  CANCEL Do not save changes and return to normal operation.   |          |             |          |  |     |
| 23 SUN OCC  OFF Set the occupied start time for Sunday, OFF or time of day.  12:00 AM  24 OCC HRS  0.0 Set the occupied duration, in hours, for Sunday.  SAVE Save changes and return to normal operation.  CANCEL Do not save changes and return to normal operation.   | 22       | OCC HRS     | 0.0      | Set the occupied duration, in hours, for Saturday.                       |     |
| 24 OCC HRS  0.0 Set the occupied duration, in hours, for Sunday.  25 DONE  SAVE Save changes and return to normal operation.  CANCEL Do not save changes and return to normal operation.   |          |             |          |  |     |
| 25 DONE SAVE Save changes and return to normal operation.  CANCEL Do not save changes and return to normal operation.  |          |             | 12:00 AM |  |     |
| 25 DONE SAVE Save changes and return to normal operation.  CANCEL Do not save changes and return to normal operation.  | 24       | OCC HRS     | 0.0      | Set the occupied duration, in hours, for Sunday.                         |     |
| CANCEL Do not save changes and return to normal operation.   |          |             |          |  |     |
| -  |          |             |          |  |     |
|  |          |             |          | = -  |     |

#### OAC CONTROLLER - ADVANCED SETUP

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



### OAC CONTROLLER - ADVANCED SETUP



## **OAC CONTROLLER - TOOLS**

Open by simultaneously pressing {ESC} ↑ during normal operation. Follow navigation rules below.

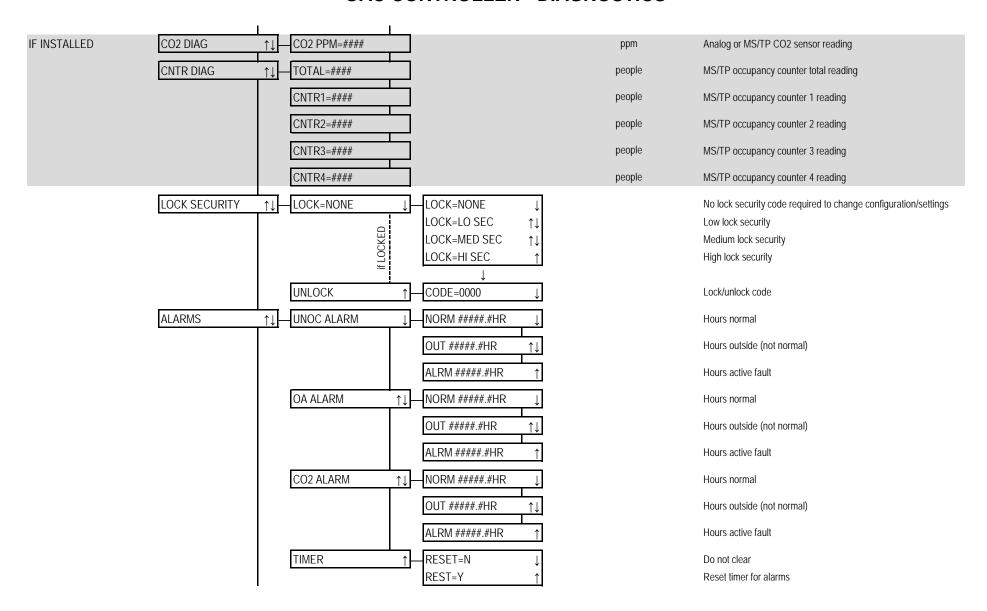
↑ or↓ Move up/dwn ↑ or↓ Move up/dwn ↑ or↓ Move up/dwn {ENT} Move right {ENT} Move right {ENT} Run tool {ESC} Cancel, move left {ESC} Exit menu (ESC) Move left Notes/Comments ADVANCED TOOLS TEST DMPR {RUN TOOL} Set damper between 0 and 100% open and display airflow {RUN TOOL} FIND MIN POS Enter desired minimum nominal airflow rate to find MIN POS. Write MIN POS to memory. ADJUST OAF {RUN TOOL} Run outdoor air field adjust wizard and write GAIN and OFFSET to memory.

# OAC CONTROLLER - DIAGNOSTICS

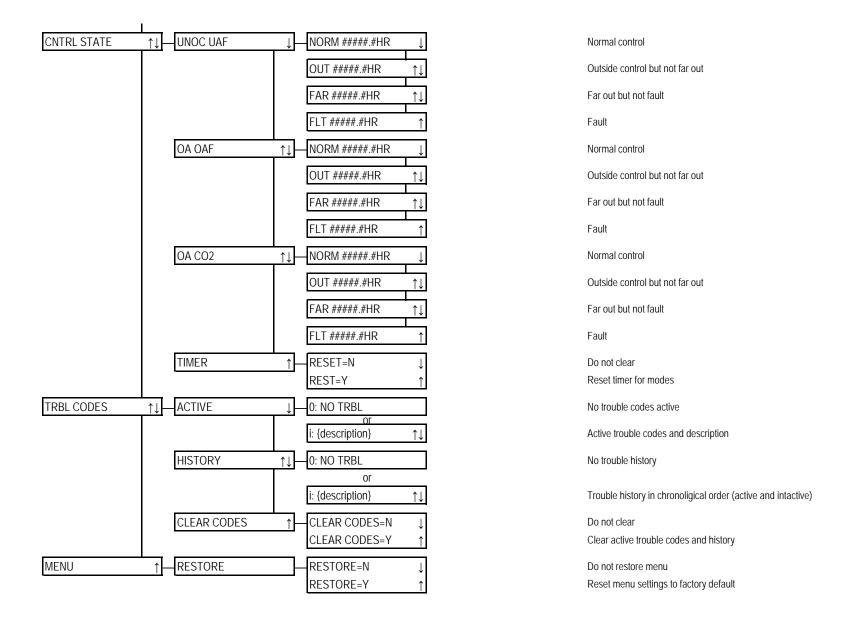
Open by simultaneously pressing {ESC} ↑ during normal operation. Follow navigation rules below.

| ↑ or↓ Move up/dwn<br>{ENT} Move right<br>{ESC} Exit menu | ↑ or↓ Move up/dwn<br>{ENT} Move right<br>{ESC} Move left |      | ↑ or↓ Move up/dwn<br>{ENT} Move right<br>{ESC} Move left | ↑ or↓ Modify/Scroll, Parameter<br>{ENT} Accept/Hold Last<br>{ESC} Cancel, move left |         | nits (if applicabl |   |
|--|--|------|--|---|---------|--------------------|---|
| ADVANCED ↓ TOOLS ↑↓                                      |  |      |  |   |         |                    |   |
| DIAGNOSTICS ↑  | DEV DIAG   | ↓    | DEV# ##### ↓   |   |         |                    |   |
|  |  |      | PCB# ###### ↑↓   |   |         |                    |   |
|  |  |      | FW VER #.## ↑↓   |   |         |                    |   |
|  |  |      | READ Al1 ↑↓  | AI1=##.###  |         | %                  | Input percentage of Al1   |
|  |  |      | READ AI2 ↑↓  | AI2=##.###  |         | %                  | Input percentage of AI2   |
|  |  |      | READ AO1 ↓   | Al1=##.###  |         | %                  | Output percentage of AO1  |
|  |  |      | READ AO2 ↑↓  | Al2=##.###  |         | %                  | Output percentage of AO2  |
|  |  |      | READ R1 ↑↓   | R1={}   | C       | FF or ON           | Relay status  |
|  |  |      | SET AO1 ↑↓   | AO1=0% ↑↓   |         | %                  | Set output percentage of AO1. Reverts to operation on exit.                                     |
|  |  |      | SET AO2 ↑↓   | AO2=0% ↑↓   |         | %                  | Set output percentage of AO2. Reverts to operation on exit.                                     |
|  |  |      | SET R1 ↑   | R1 STAT=OFF ↓ R1 STAT=ON ↑  |         |                    | Disable relay R1. Reverts to operation on exit.  Enable relay R1. Reverts to operation on exit. |
|  | OAF DIAG   | ↑↓ - | −PROBE SN ↓  | P1=####   |         |                    | Serial number of probe(s)   |
|  | ONI DINO   | ↓    | AVG VEL ↑↓   | —VEL=###  | fpm     | m/s                | Average velocity of integral airflow probe(s)   |
|  |  |      | AVG TEMP ↑↓  | TEMP=###.#  | .p<br>F | C                  | Average temperature of integral airflow probes(s)   |
|  |  |      | SENS VEL 1   | S1=#### \   | fpm     | m/s                | Individual sensor node velocities   |
|  |  |      | SENS TEMP ↑↓   |   | F       | С                  | Individual sensor node temperatures   |
|  |  |      | HS VOLTS ↑↓  | HS1=##.## ↓   |         | volts              | Self-heated thermistor voltage  |
|  |  |      | TS VOLTS ↑   | TS1=##.## ↓   |         | volts              | Temperature sensor voltage  |

### **OAC CONTROLLER - DIAGNOSTICS**



### **OAC CONTROLLER - DIAGNOSTICS**



# STARTUP DISPLAY (after power up)

| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 |                                      |
|--|--------------------------------------|
| 0 A C - 5 0 0 0                        | Display Series and Board Model       |
| F I R M W R E # # . # #                | Display Firmware Version             |
| M M - D D - Y Y                        | Date and Time (3000S only)           |
| 0 A F P 1 # # #                        | P1 Presence: YES, NO                 |
| 0 A F P2 ###                           | P1 Presence: YES, NO                 |
| C 0 2 TYPE #####                       | 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 MS/TP #####                      | 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 ####  CNTR3 MS/TP ####     | NONE, ERR or Last 4 digits of DI*    |
| © NTR4 MS/TP ####                      | NONE, ERR or Last 4 digits of DI*    |
| R 1 A S G N # # # # #                  | R1 Assignment: ALRMS or MODE         |

<sup>\*</sup> Notes:

NONE - Sensor not conigured

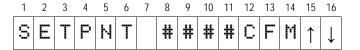
ERR - Configured sensor not found when N1 DEVICES=BAS (Operate in PASS MODE if OAC = CO2 or OAF/CO2)

ERR - Configured sensor not found after discovery delay when N1 DEVICES=SENS (Operate in PASS MODE if OAC = 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. Return to normal operating display after 15 seconds.



**Display Active Setpoint** 

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

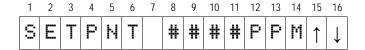
↑ or ↓ arrows changes setpoint.

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

OAC=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  | X  |
| # | # | # | # | С | F | M |   |   |    | T  |    | Χ  | Χ  | Χ  | Χ  |
| # | # | # | # | С | F | M |   |   |    | M  |    | Χ  | Χ  | Χ  | Χ  |
| # | # | # | # | 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 MOAC dependent.

| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 |   |
|--|---|
| MODE XXXX                              | Active Mode, OFF, UNOC, OCC                                   |
| OACXXXXXX                              | OAC method  |
| M M - D D - Y Y   T T : T T ? M        | Date and Time (3000S only)                                    |
| DMPR ###%                              | Current Damper Position                                       |
| SETPNT ####%                           | Setpoint if OAC=FIXED   |
| S E T P N T # # # # C F M              | Setpoint if OAC=FLOW, CO2/OAF, or COUNT                       |
| 0 A F # # # # C F M                    | Measured airflow  |
| S E T P N T # # # P P M                | 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 0 U N T E R # # # #                  | Display counter occupancy (if counter installed)              |