XF5

MANUAL

CRC™

Measure What Matters.

TABLE OF CONTENTS

	PAGE
PRODUCT OVERVIEW	3
SPECIFICATIONS	4
DIMENSIONS	5
EQUIPMENT LAYOUT OPTIONS	6-8
EQUIPMENTWIRING	9
PLACEMENT GUIDE	10
AIRFOIL MEASUREMENT	11
NETWORK INTERGRATION	12-14
QUICKSTART GUIDE	15-25
NOTES	26-27

IMPORTANT NOTES

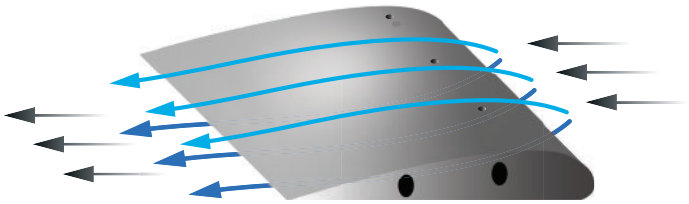
The "Important Notes" header is used throughout this manual to callout important considerations that the reader should be aware of. Please take time to thoroughly read these sections.

PRODUCT OVERVIEW

The CRC Fan Array Monitoring System (XF5) is a comprehensive airflow monitoring solution designed for fan arrays in high-performance applications. It integrates the XF5 Transmitter with Fan Inlet Probes and Piezo Sensors, and optionally supports Airfoil Measurement Probes for outside air monitoring, providing accurate and reliable airflow data.

XF5 TRANSMITTER FEATURES

- **Touchscreen User Interface:** Full-color display for clear, real-time airflow measurements and totalization of up to 12 fans in a single or dual fan array.
- **Auxiliary Monitoring:** Supports additional measurements, including outside air monitoring with Airfoil Measurement Probes, duct temperature sensing, and AHU filter condition monitoring.
- **Built-In Alarms:** Provides real-time alerts for fan array performance, totalized airflow, and individual fan conditions, including failures.
- **Streamlined Configuration and Commissioning**: Simplifies setup and commissioning through an intuitive touchscreen interface—no additional software or tools required.
- **BACnet® MS/TP Integration:** Outputs individual fan airflows and total fan array airflow for seamless network integration.



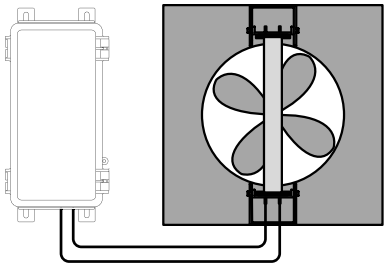
AIRFOIL PROBE FEATURES

- **Airfoil Design:** Measures airflow using the pressure difference across the airfoil's upper and lower surfaces for high precision and repeatability.
- **Accurate and Maintenance-Free:** Utilizes a silicon-based, dead-ended sensor that resists contaminants, ensuring long-term reliability without scheduled maintenance.
- **Impervious to Debris:** Static pressure pickups are perpendicular to airflow, preventing clogging from lint, dust, and dirt, unlike traditional pitot or thermal-based sensors.
- **Long-Term Stability:** Proven sensing technology maintains accuracy over time, providing repeatable measurements in both high and low flow scenarios.
- **Wide Operating Range:** Delivers consistent feedback across a broad range of airflow applications.

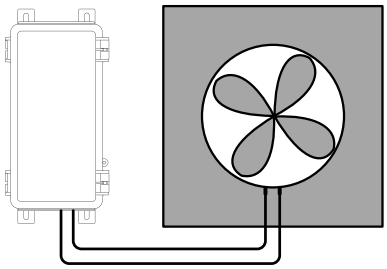
FAN ARRAY MONITORING SYSTEM

XF5

XF5



FAN INLET PROBE



PIEZO SENSOR

XF5 SPECIFICATIONS

Fan/Flow Sensing Points	Up to 12 Individual Fans
Fan Totalization	Up to 2 Fan Arrays
Additional Points	2 Auxiliary Points for Airflow or Temperature
Alarms	Individual Fan Total Fan Array
Display	7.0" Full Color Resistive Touchscreen
Input Voltage	22 to 26 VAC; 50/60 Hz
Power Draw	18 VA
Operating Temperature	0 to 140 °F (-18 to 60 °C)
Operating Humidity	10 to 95% R.H (non-condensing)
Storage Temperature	-22 to 158 °F (-30 to 70 °C)
Communication	BACnet® MS/TP (RS485)

FAN INLET PROBE SPECIFICATIONS

Operating Temperature	-30 to 200 °F (-34 to 93 °C)
Operating Humidity	No Effect
Material of Construction	Anodized Aluminum Airfoil
Hardware	Stainless Steel
Operating Range	50 to 2500 FPM
Probe Length	6.0 to 120.0 inches
Measurement Accuracy	2 %

PIEZO SENSOR SPECIFICATIONS

Pressure Range	XP-505	0 to 5.0 inWC
	XP-511	0 to 10.0 inWC
	XP-515	0 to 15.0 inWC
	XP-521	0 to 20.0 inWC
Storage Temperature	-40 to 158 °F (-40 to 70 °C)	
Operating Temperature	-4 to 140 °F (-20 to 60 °C)	
Humidity Effects	No performance effect at 10-95% R.H	
Input Voltage	5 VDC	
Output Voltage	0.5 to 4.5 VDC	
Measurement Accuracy	2 %	

WIRING

FLOW FEEDBACK	OUT / WHITE	0.5-4.5 Refer to sensor
GROUND	GND / BLACK	GND
POWER	5V / RED	5 VDC

Wire Connection	3 Conductor Stranded
Min Wire Gauge	22 AWG (0.6 mm)
Max Length	200ft (61 m)
Preferred Color	Red/Black/White

NOMENCLATURE

FI-____

Product
XF5

Measurement
FI = Fan Inlet Probe and Sensor

Probe Length
10 to 60 in

NOMENCLATURE

XP-____

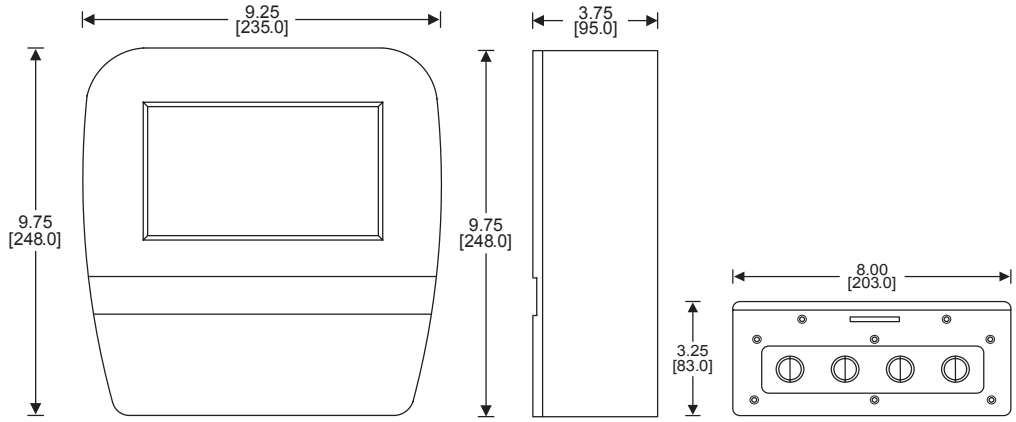
Product
XF5

Measurement
XP = Piezo Sensor

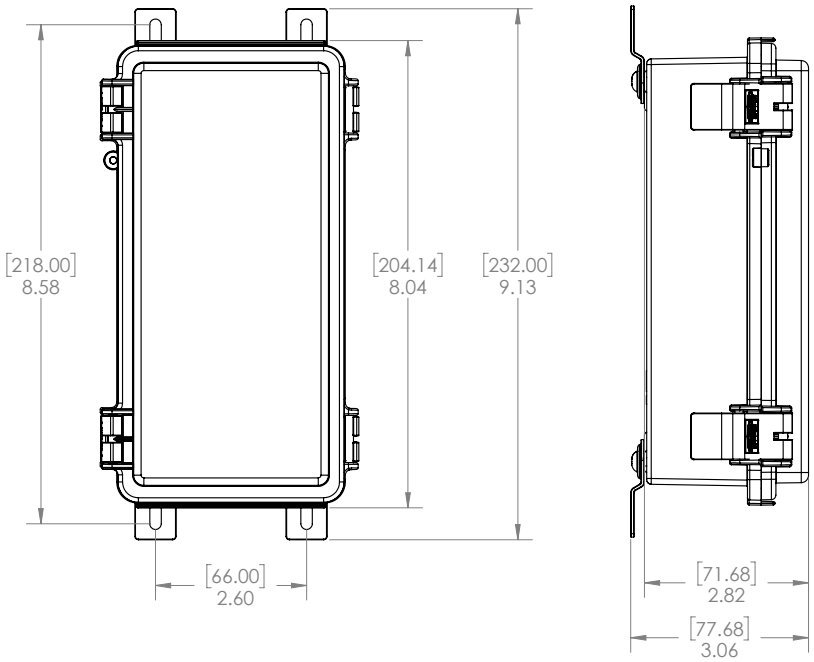
Sensor Range
505 = 0 to 5.0 inWC
511 = 0 to 10.0 inWC
515 = 0 to 15.0 inWC
521 = 0 to 20.0 inWC

XF5 DIMENSIONS

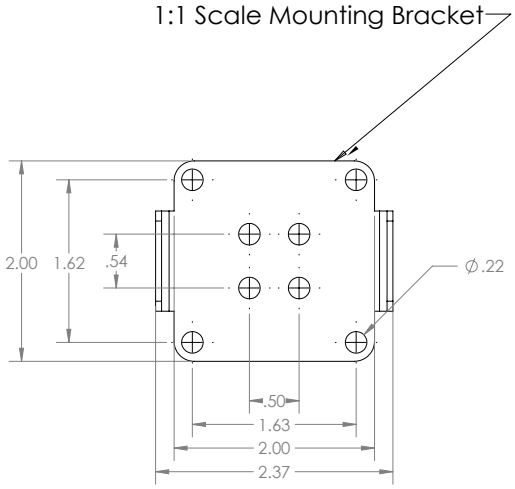
Front View | Side View | Bottom View

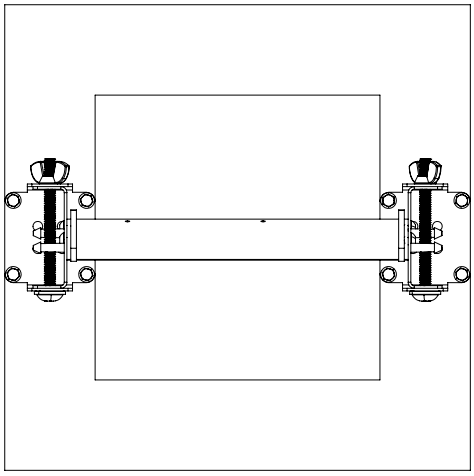


SENSOR ENCLOSURE DIMENSIONS



STANDOFF MOUNT

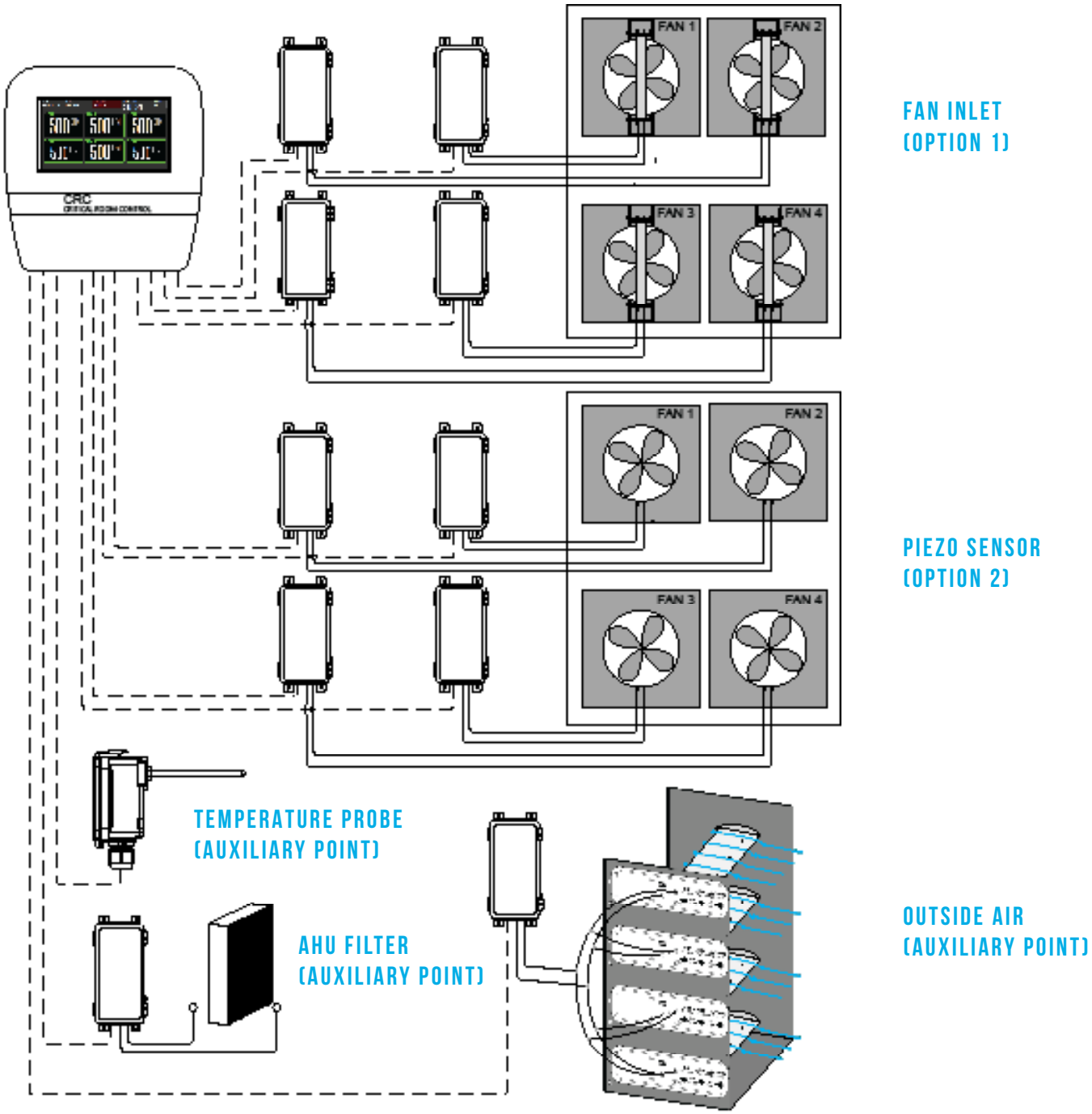




EQUIPMENT LAYOUT OPTIONS

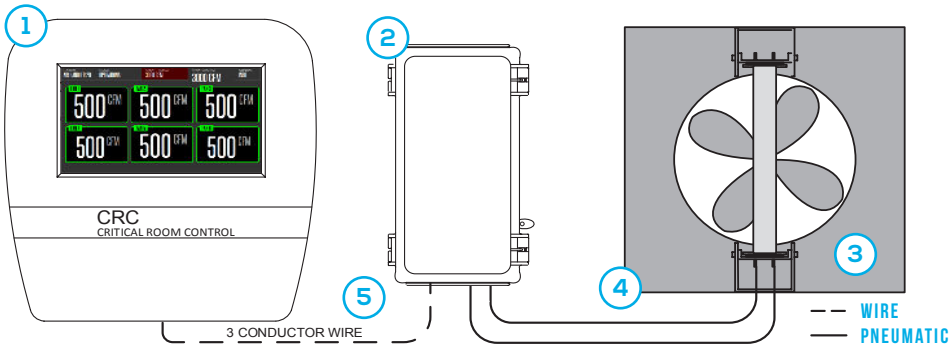
SYSTEM CONFIGURATION

The XF5 implements a modular configuration that includes a remote mounted touchscreen display and remote sensor for each fan in the array. All Fan Inlet Probes can be installed by the air handling unit manufacturer or in the field. Piezo Sensors can be connected to manufacturer furnished Piezo rings. The Fan Inlet Probes and Piezo Sensors measure and relay flow feedback to the XF5 for monitoring of all fans. The addition of temperature probe(s), outside air measurement(s) featuring CRCs airfoil design, and/or AHU filter differential pressure sensor(s) can be connected directly to the XF5 for monitoring.



EQUIPMENT LAYOUT OPTIONS

FAN INLET PROBES



1. The XF5 display unit can measure airflow from up to 12 Fan Inlet Probes (FI__) from two fan arrays.
2. Remote mounted measurement sensor included with each XF5.
3. The XF5 Fan Inlet Probe(s) range in size from 6 to 120 inches.
4. HIGH/HI port and LOW/LO port with 1/4" pneumatic tubing connected to remote sensor.
5. Airflow signal from remote sensor to XF5 display unit.

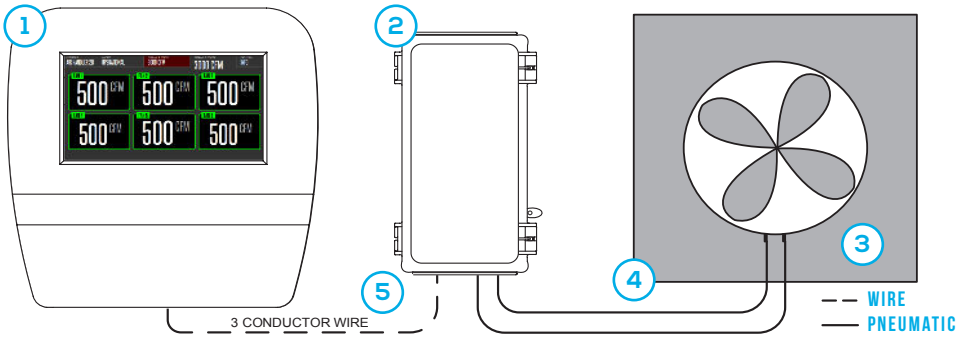
When selecting FI__ for a fan inlet array, each fan requires QTY 1 Fan Inlet Probe. Consult with fan manufacturer to determine the necessary probe length.

NOMENCLATURE

FI-___

Product
XF5
Measurement
FI = Fan Inlet Probe and Sensor
Probe Length
6 to 120 in

PIEZO SENSORS



1. The XF5 display unit can measure airflow from up to 12 XF5 Piezo Sensors (XP___) from two fan arrays.
2. A remote mounted Piezo Sensor included for each fan(s).
3. Pneumatic connection from Piezo Sensor directly to fan inlet.
4. HIGH/HI port and LOW/LO port with 1/4" pneumatic tubing is connected to remote Piezo Sensor.
5. Airflow signal from remote Piezo Sensor to XF5 display unit.

When selecting XP___ for a fan inlet array, each fan requires QTY 1 Piezo Sensor. Consult with fan manufacturer to determine the necessary airflow sensor range.

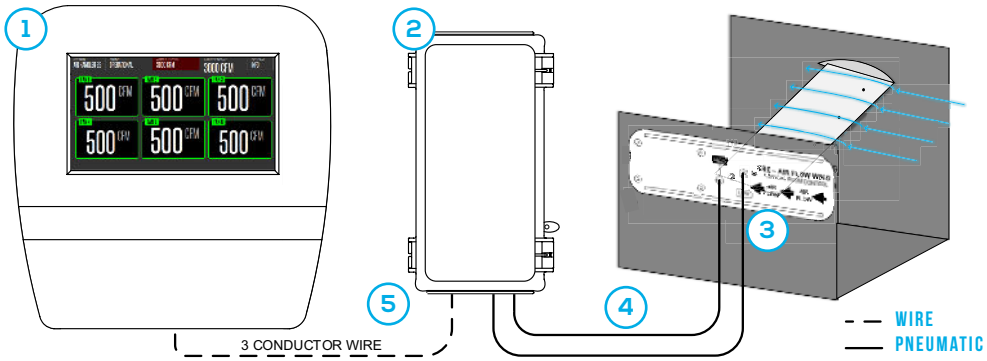
NOMENCLATURE

XP-___

Product
XF5
Measurement
XP = Piezo Sensor
Sensor Range
505 = 0 to 5.0 in WC
511 = 0 to 10.0 in WC
515 = 0 to 15.0 in WC
521 = 0 to 20.0 in WC

EQUIPMENT LAYOUT OPTIONS

AIRFOIL MEASUREMENT



5 XF5 display unit can measure airflow from up to two XF5 Airfoil Measurements (AM-__-____-____).

2 Remote mounted measurement sensor

3 Insertion mount shown, and also available as standoff or internal mount)

4 HIGH/HI port and LOW/LO port with 1/4" pneumatic tubing connected to remote sensor.

5 Airflow signal from remote sensor to XF5.

When selecting Airfoil Measurement, refer to the placement guide for installation and sizing requirements per application.

NOMENCLATURE

AM-__-____-__-__

Product
XF5

Measurement
AM = Airfoil and Sensor

Mounting
1 = Insertion
2 = Internal
3 = Standoff

# of Probes
1 to 4

Range
0 to 2500 FPM

Remote Sensor
Remote

Perpendicular Length (B)
0000 to 1200 (0.000 to 120.0in)

Probe Length (A)
0000 to 1200 (0.000 to 120.0in)

EQUIPMENT WIRING

TYPICAL WIRING:

Only One Array
AIN 1-12 - Used for 12 fans for a single Array
AIN 13 - Auxiliary
AIN 14 - Auxiliary

Two Arrays
AIN 1-12 - Divided between Two Arrays
AIN 13 - Auxiliary
AIN 14 - Auxiliary

Flow sensors (Fan Inlet Probe and Piezo) both utilize the same wiring for both flow measuring types.

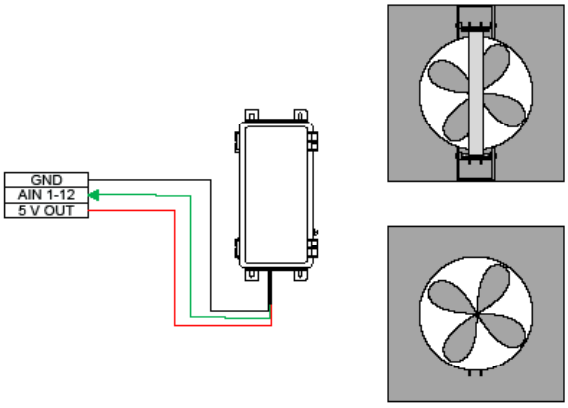
XF5 WIRING

	SINGLE FAN ARRAY
AIN 1	Fan #
AIN 2	Fan #
AIN 3	Fan #
AIN 4	Fan #
AIN 5	Fan #
AIN 6	Fan #
AIN 7	Fan #
AIN 8	Fan #
AIN 9	Fan #
AIN 10	Fan #
AIN 11	Fan #
AIN 12	Fan #
AIN 13	AUX
AIN 14	AUX

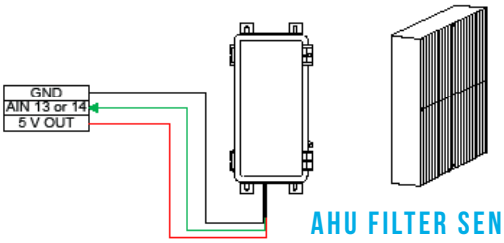
	MULTIPLE FAN ARRAYS			
AIN 1	Fan #	Array	1	2
AIN 2	Fan #	Array	1	2
AIN 3	Fan #	Array	1	2
AIN 4	Fan #	Array	1	2
AIN 5	Fan #	Array	1	2
AIN 6	Fan #	Array	1	2
AIN 7	Fan #	Array	1	2
AIN 8	Fan #	Array	1	2
AIN 9	Fan #	Array	1	2
AIN 10	Fan #	Array	1	2
AIN 11	Fan #	Array	1	2
AIN 12	Fan #	Array	1	2
AIN 13	AUX	Array	–	–
AIN 14	AUX	Array	–	–

⚠ Use this table to write in each fan number next to the input it is wired to. For multiple fan arrays, be sure to circle 1 or 2 to record the respective array that each fan is a part of. Keeping track of fan numbers and wiring will be crucial for setup.

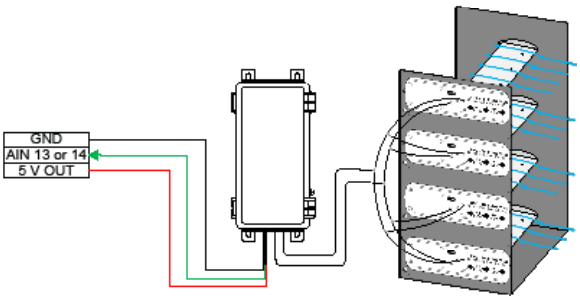
FAN INLET PROBE



PIEZO



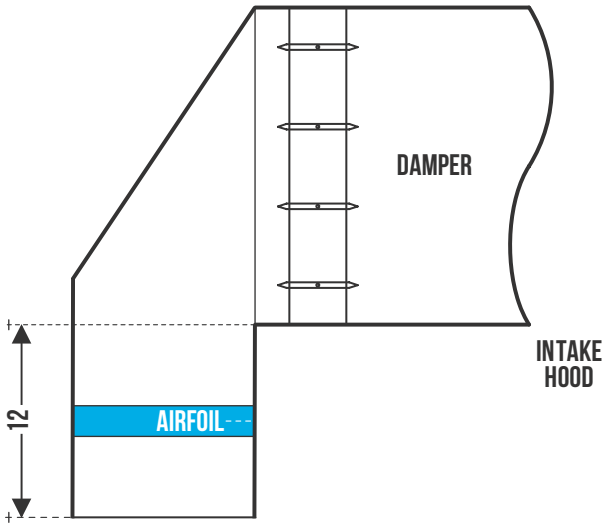
AHU FILTER SENSING

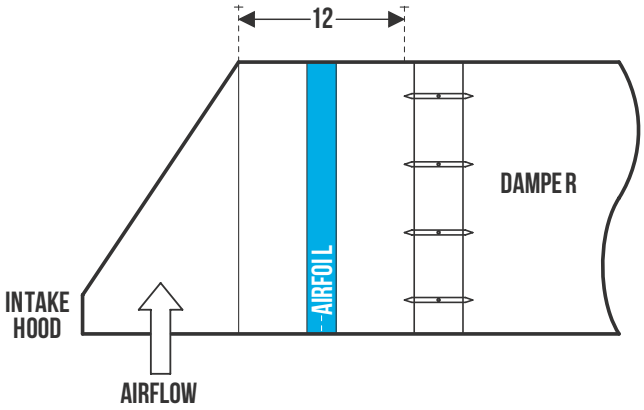


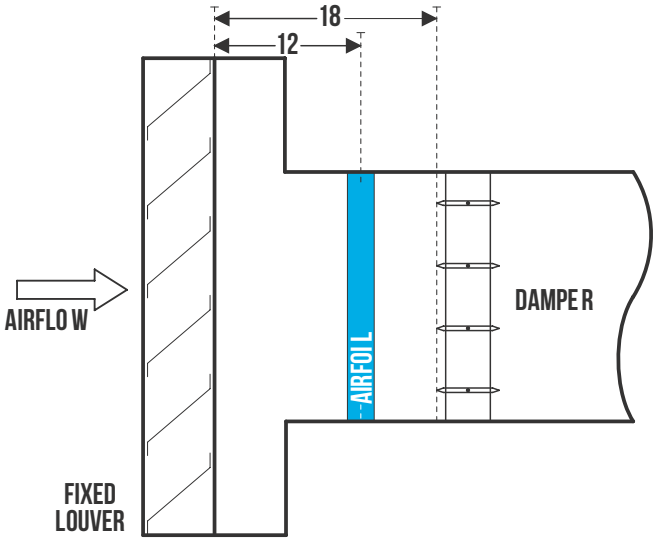
OUTSIDE AIR MONITORING

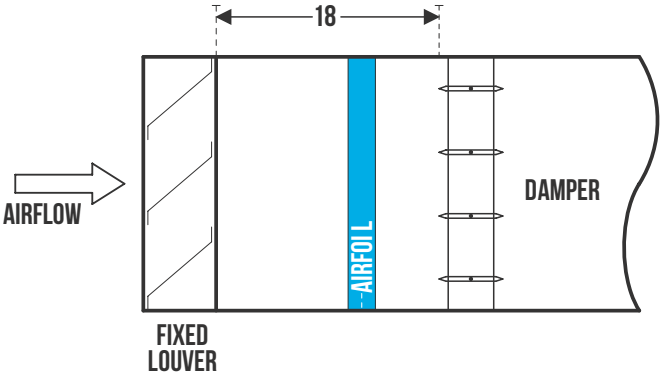
PLACEMENT GUIDE

HOOD, DAMPER AND LOUVER APPLICATIONS









All measurements in inches

AIRFOIL MEASUREMENT

XF5 DUCT AND PROBE TABLE

	AIRFOIL TABLE																															
	DUCT WIDTH & AIRFOIL LENGTH (inches)																															
	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	40	44	48	52	56	60	66	72	78	84	90	96	102	108	114	120
DUCT HEIGHT (inches)																																
6																																
8																																
10																																
12																																
14																	1															
16																																
18																																
20																																
22																																
24																																
26																																
28																																
30																	2															
32																																
34																																
36																																
40																																
44																																
48																																
52																	3															
56																																
60																																
66																																
72																																
78																																
84																																
90																																
96																	4															
102																																
108																																
114																																
120																																

⚠ The XF5 Duct and Probe Table indicates the number of probes needed for any given duct width and height.

NETWORK INTEGRATION

BACNET® MS/TP DETAILS

BACnet® MS/TP

The XF5 uses the BACnet®MS/TP protocol for communication with the building automation system. BACnet® allows owners and service providers to monitor, trend, alarm, troubleshoot and change parameters to verify that operating conditions are being met.

BACnet® Address

The XF5 BACnet® configuration requires the user to assign unique addressing for each XF5.
Requirements of a BACnet® MS/TP network:

- Baud rate must match associated router and system controller. The trunk can be configured for a baud rate of 9600, 19200, 38400, 57600 or 76800
- Device instance must be unique to the facility and can be between 0 and 4,194,304
- MAC address must be unique to the MS/TP segment and can be between 0 and 254

RS485 WIRING

To connect to the RS485 network, use a three-wire conductor: positive, negative, and ground/common. Devices on the RS485 network are connected in series, or "daisy-chained."

- An MS/TP EIA-485 network should use a three-wire shielded twisted pair cable with an impedance of 100-130 ohms.
- The capacitance between conductors should be less than 100 pF per meter, with both foil and braided shields being acceptable.
- The maximum segment length is 4,000 feet using 18 AWG wire, supporting up to 32 nodes per segment.
- The network should not include T connections.
- Termination resistors of 120 ohms ±5% should be placed at each end of the segment, with no additional terminations at intermediate nodes.

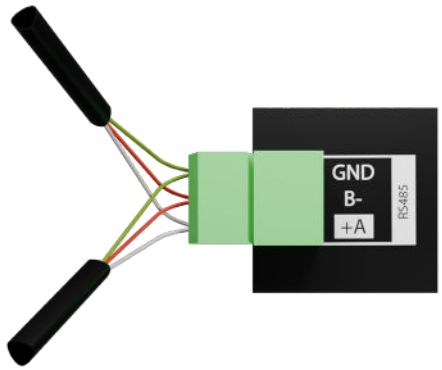
BACNET® TABLE

BACnet® / BACnet® MAP

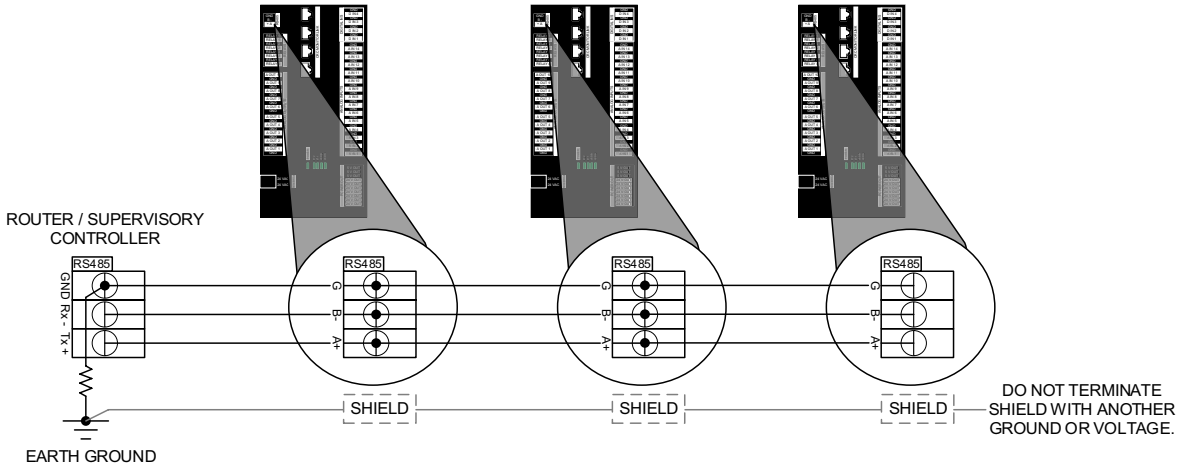
The BACnet® table will automatically rebuild if an AI, AO, or Point has been enabled or disabled. The "Rebuild BACnet® Tables" button is still available if user wants to immediately rebuild the tables.

COV increments will default to a value of "10". Any changes to the COV increment values will be stored in non-volatile memory (i.e. saved and reloaded on power cycle).

BACnet® MS/TP WIRING



TYPICAL BACNET® WIRING



NETWORK INTEGRATION

BACNET® POINTS LIST

Writable Readable Only

	Current Value (COV) - Priority Array	Alarm High / Over	Alarm Low / Under	Alarm Delay	Alarm Status (MSV) (COV)	Fan On / Off (MSV)	Low Flow Lockout
FAN 1 ARRAY 1	1000	1112	1140	1168	1196	1420	1392
FAN 2 ARRAY 1	1001	1113	1141	1169	1197	1421	1393
FAN 3 ARRAY 1	1002	1114	1142	1170	1198	1422	1394
FAN 4 ARRAY 1	1003	1115	1143	1171	1199	1423	1395
FAN 5 ARRAY 1	1004	1116	1144	1172	1200	1424	1396
FAN 6 ARRAY 1	1005	1117	1145	1173	1201	1425	1397
FAN 7ARRAY 1	1006	1118	1146	1174	1202	1426	1398
FAN 8 ARRAY 1	1007	1119	1147	1175	1203	1427	1399
FAN 8 ARRAY 1	1008	1120	1148	1176	1204	1428	1400
FAN 10 ARRAY 1	1009	1121	1149	1177	1205	1429	1401
FAN 11 ARRAY 1	1010	1122	1150	1178	1206	1430	1402
FAN 12 ARRAY 1	1011	1123	1151	1179	1207	1431	1403
FAN 1 ARRAY 2	1012	1124	1152	1180	1208	1432	1404
FAN 2 ARRAY 2	1013	1125	1153	1181	1209	1433	1405
FAN 3 ARRAY 2	1014	1126	1154	1182	1210	1434	1406
FAN 4 ARRAY 2	1015	1127	1155	1183	1211	1435	1407
FAN 5 ARRAY 2	1016	1128	1156	1184	1212	1436	1408
FAN 6 ARRAY 2	1017	1129	1157	1185	1213	1437	1409
FAN 7ARRAY 2	1018	1130	1158	1186	1214	1438	1410
FAN 8 ARRAY 2	1019	1131	1159	1187	1215	1439	1411
FAN 8 ARRAY 2	1020	1132	1160	1188	1216	1440	1412
FAN 10 ARRAY 2	1021	1133	1161	1189	1217	1441	1413
FAN 11 ARRAY 2	1022	1134	1162	1190	1218	1442	1414
FAN 12 ARRAY 2	1023	1135	1163	1191	1219	1443	1415
ARRAY TOTAL 1	1024	1136	1164	1192	1220	1444	1416
ARRAY TOTAL 2	1025	1137	1165	1193	1221	1445	1417
AUX 1	1026	1138	1166	1194	1222	1446	1418
AUX 2	1027	1139	1167	1195	1223	1447	1419

MSV 1196-1223 *Alarm Status: 1=Not in Alarm 2=In Alarm 3=In Alarm*
MSV 1420-1447 *Fan On / Off: 1 =On 2 =Off*

NETWORK INTEGRATION

ANALOG INPUT VALUES (AV / MSV 2000 - 2181)

Writable Readable Only

	AI 1	AI 2	AI 3	AI 4	AI 5	AI 6	AI 7	AI 8	AI 9	AI 10	AI 11	AI 12	AI 13	AI 14
Voltage High	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Voltage Low	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Computation Type (MSV)	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
K factor	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069
Offset	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111
Sensor High	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125
Sensor Low	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139
Lock Input (MSV)	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153
Override Voltage Input	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167
Current Volt In (COV)	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181

To override an analog input voltage, first write a 2 to MSV 2140-2153 to lock the input. Next, write a voltage value to MSV 2154-2167 for the desired analog input.
MSV 2028-2041 *1=Linear 2=Square Root* ***MSV 2140-2153*** *Lock Input: 1=Unlocked 2=Locked*

ANALOG OUTPUT VALUES (AV / MSV 2500 – 2799)

Writable Readable Only

	AO 1	AO 2	AO 3	AO 4	AO 5	AO 6	AO 7	AO 8	AO 9	AO 10
Output Type (MSV)	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509
Sensor Low	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649
Sensor High	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659
PID Output (COV)	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709
Voltage High	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739
Voltage Low	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749
Lock Output Value (MSV)	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779
Set Output Value	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789
Current Voltage Out (COV)	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799

To override an analog output voltage, first write a 2 to MSV 2770-2779 to lock the output. Next, write a voltage value to MSV 2780-2789 for the desired analog output.
MSV 2500-2509 *Output Type: 1=Unused 2=Mirror AI 3= Mirror AO 4=Output Internal Value*
MSV 2770-2779 *Lock Output Value: 1 =Unlocked 2=Locked*

DEVICE LEVEL

Writable Readable only

MAC	5000
Current Mode (MSV) (COV)	5001
Device Alarm (MSV) (COV)	5002
Instance ID	5003
BAUD Rate (MSV)	5004
Locked Status (MSV)	5005
Controller Version	5008

MSV 5001 *Current Mode: 1=Mode 1 2=Mode 2 3=Mode 3 4=Mode 4 5=Mode 5*
MSV 5002 *Device Alarm: 1=Not in Alarm 2=Caution 3=In Alarm*
MSV 5004 *Baud Rate: 1=9.6kbps 2=19.2 kbps 3=38.4 kbps 4=57.6 kbps 5=76.8 kbps*
MSV 5005 *Locked Status: 1=Unlocked 2=Locked*

DIGITAL INPUTS (BV 1-4)

Readable only

Digital input 1	1
Digital input 2	2
Digital input 3	3
Digital input 4	4

0 =Open, 1 =Closed

RELAYS (BV 5-8)

Readable only

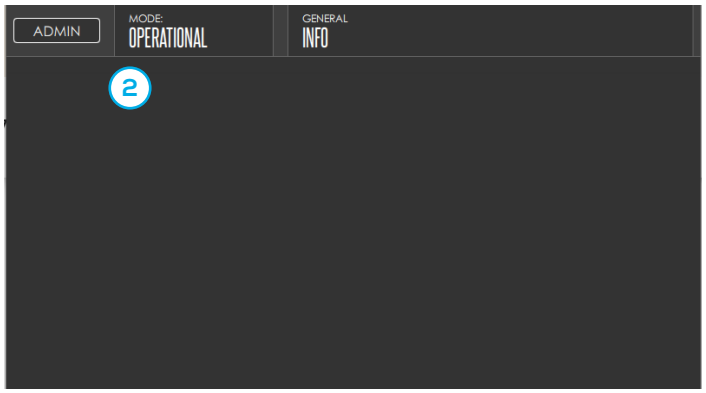
Relay 1	5
Relay 2	6
Relay 3	7
Relay 4	8

0 =Open, 1 =Closed

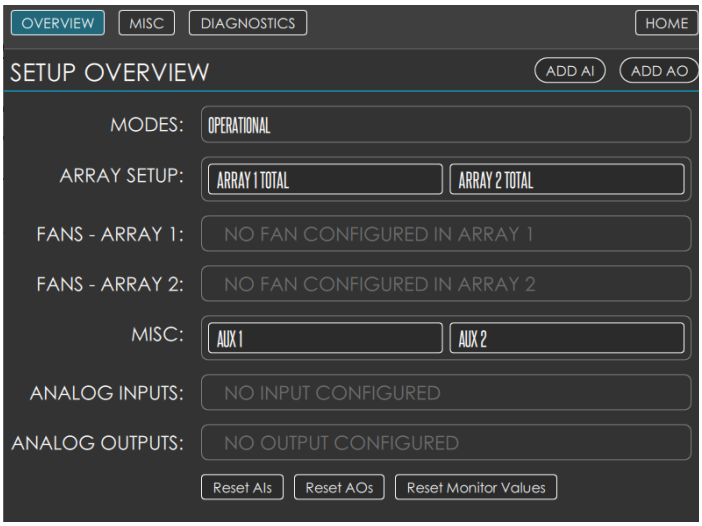
QUICKSTART GUIDE

ACCESSING THE ADMIN MENU

1 Touch AHU DEMO (Default)



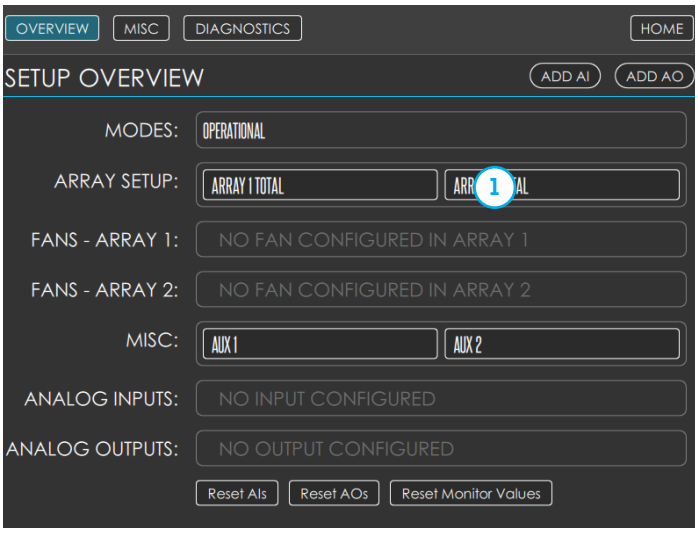
2 Select “ADMIN”



Setup Overview

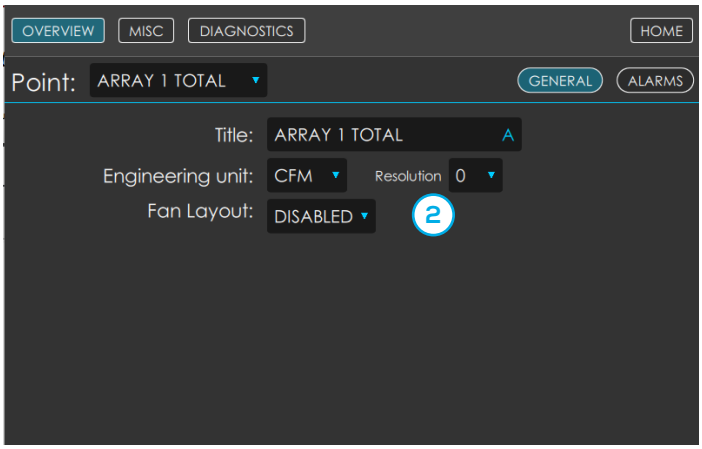
QUICKSTART GUIDE

ARRAY SETUP

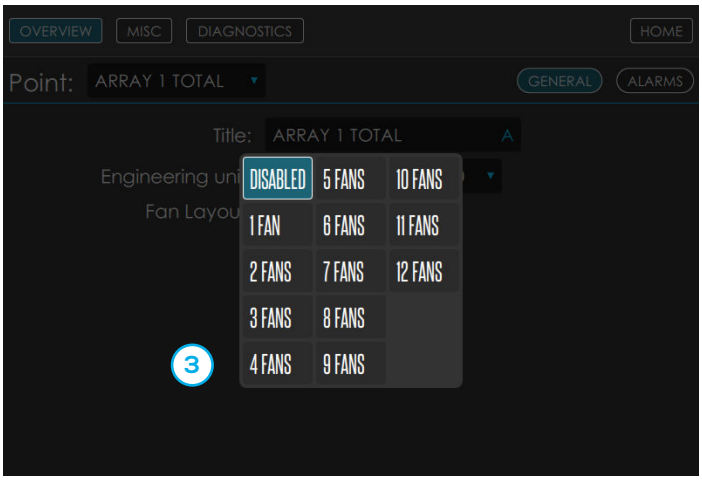


Use For this example, a 4 fan array will be configured.

1 Select an array to configure ARRAY 1 TOTAL



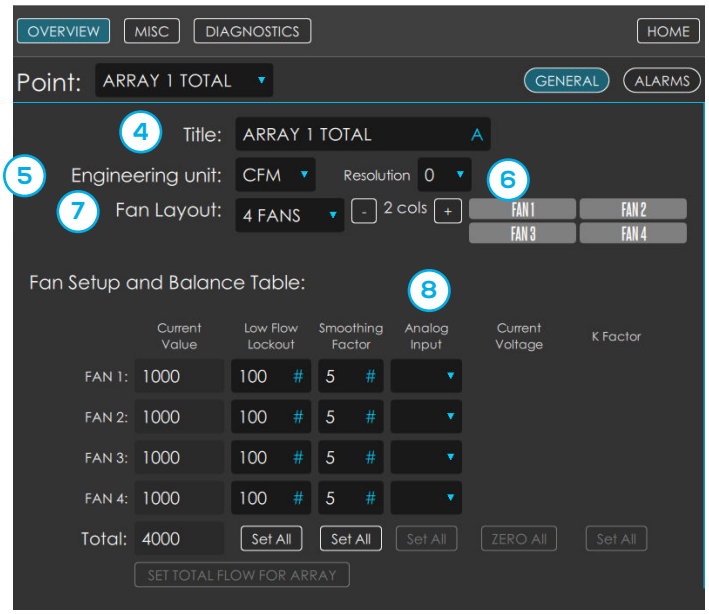
2 Select Fan Layout



3 Select number of fans to include in array

QUICKSTART GUIDE

ARRAY SETUP CONTINUED



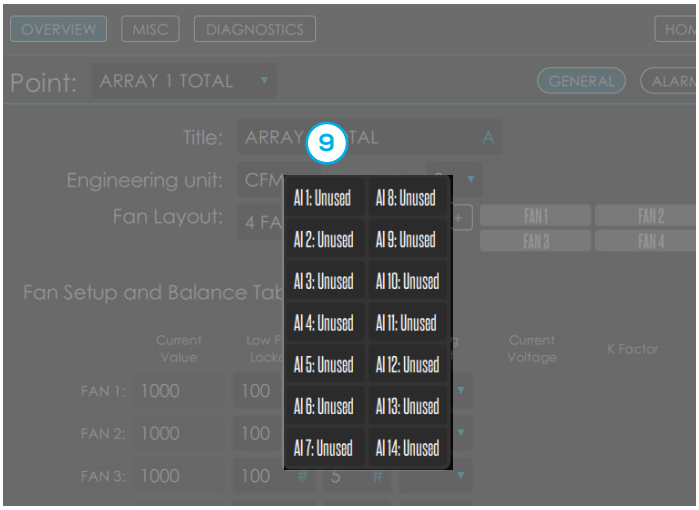
4 Rename fan array

5 Choose engineering unit for ARRAY 1

6 Choose display resolution for individual fan flows.

7 Select a layout based on total number of fans and total number of columns

8 Assign each fan to its analog input. Refer to specific fan wiring.



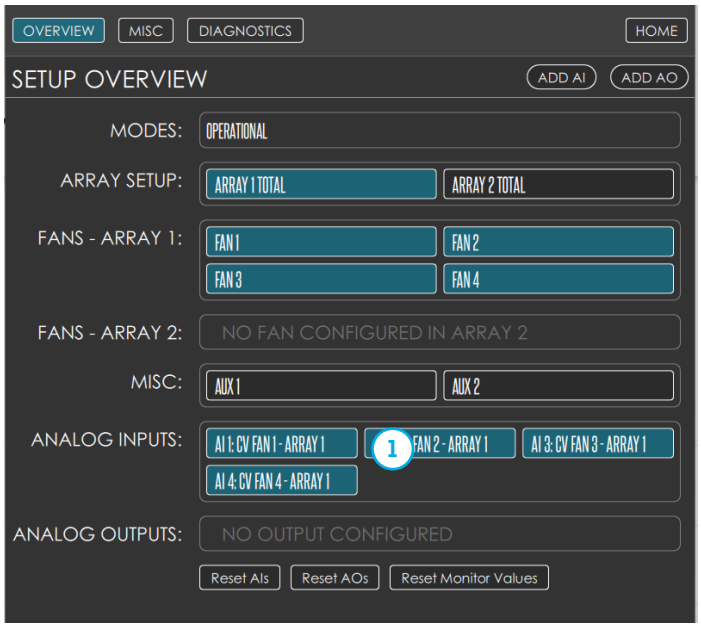
9 Assign each Analog Input as needed.

⚠ An analog input can only be assigned once.

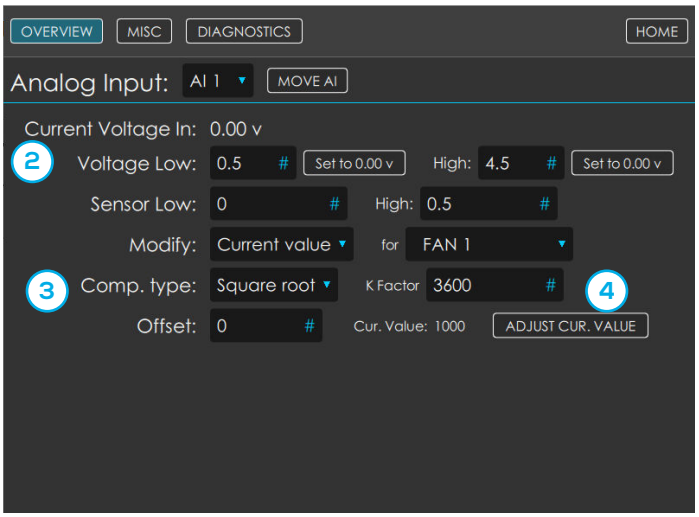
⚠ If a second fan array needs to be configured, follow the above Steps 1-9 using ARRAY 2 TOTAL.

QUICKSTART GUIDE

INDIVIDUAL FAN INPUT CONFIGURATION



1. From the OVERVIEW Screen scroll down to ANALOG INPUTS and select an active input.



⚠ Default Analog Input settings support Fan Inlet Probe sensing.

2. Confirm sensor voltage range and sensing range. Fan Inlet Probe or Piezo Sensor can be found in remote enclosure.

3. Comp. Type - Select Square root for measuring airflow or velocity. Select Linear for temperature sensors, AHU filter sensors, etc.

4. Calculate default K Factor

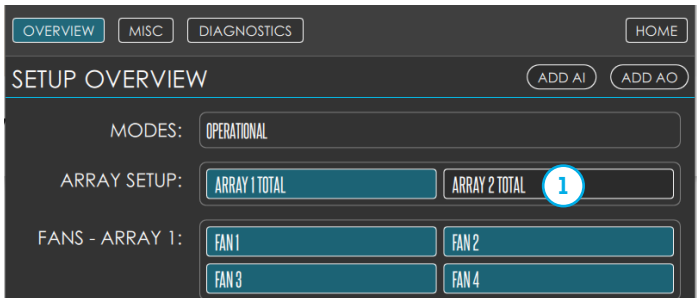
$$\pi r^2 \, (ft^2) \times 3600 \, (FPM) = K \, Factor \, (CFM)$$

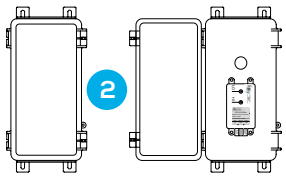
π = Constant
r = Radius of fan inlet

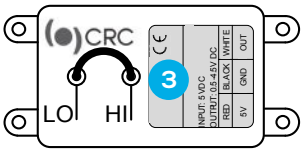
⚠ Repeat Steps 1-4 for all analog inputs.

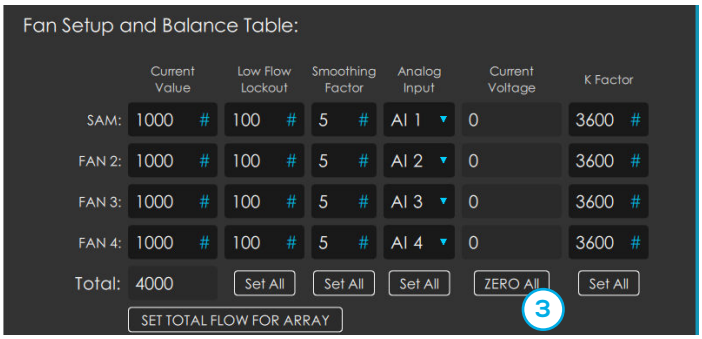
QUICKSTART GUIDE

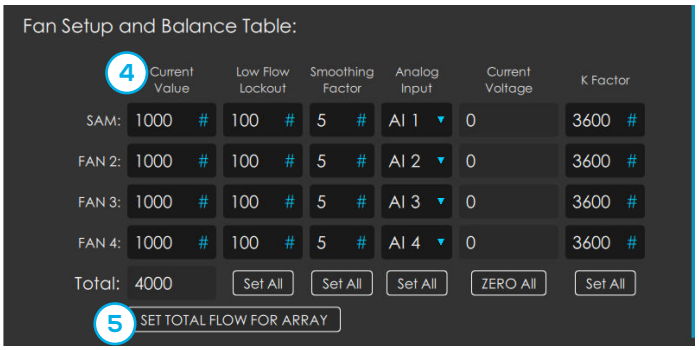
BALANCING/COMMISSIONING











1. Select a Fan Array to balance

2. Zero airflow sensor(s)

⚠ To zero the Array airflow, locate each fan's sensor. Sensor can be found in remote enclosure.

3. Shunt the HI and LO ports of all airflow sensors. While the Sensor is shunted, press ZERO ALL

⚠ Input voltage low value may change from 0.500

OPTION 1 - Individual Fan Commissioning

4. Display of current fan flow. If your measured flow is different than the displayed flow select and enter your measured flow into Current Flow

Note: The "K-Factor" will change based on entered value at 4.

⚠ The K Factor will automatically calculate based on entered value.

OPTION 2 - Total Fan Array Commissioning

5. Select SET TOTAL FLOW FOR ARRAY
Enter total CFM for entire array

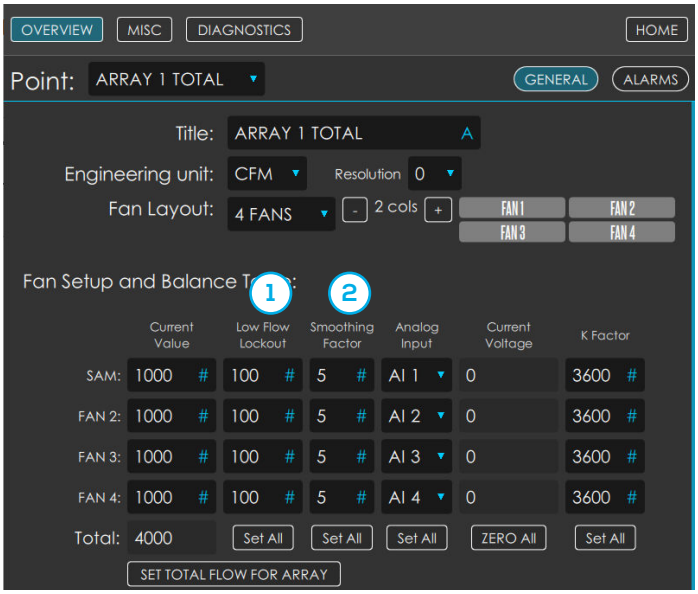
⚠ Each fan's K Factor will automatically calculate based on entered value.

⚠ After entering CFM for option 1 or 2 verify new flow reading - once verified, commissioning is complete.

⚠ If a second fan array needs to be commissioned / balanced, follow the above Steps 1-7

QUICKSTART GUIDE

BALANCING/COMMISSIONING

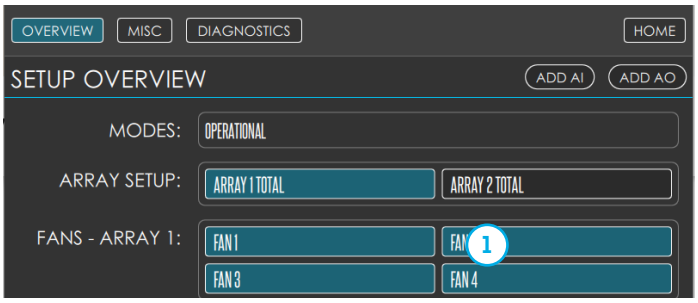


1. Set Low Flow Lockout. Any airflow or air velocity below this value will display as 0.
   Recommended: Verify with project requirements.

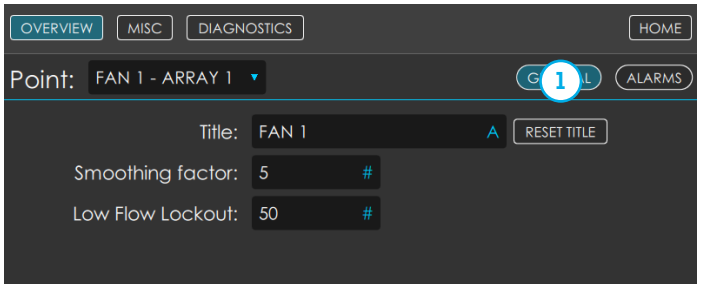
2. Changes to this value can negatively affect readings.
   Recommended: Smoothing Factor = 5

QUICKSTART GUIDE

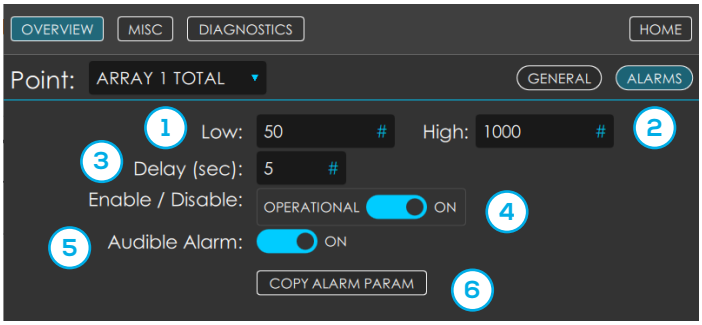
INDIVIDUAL FAN ALARM



1. Select the desired fan you want to setup alarms



1. Select ALARMS



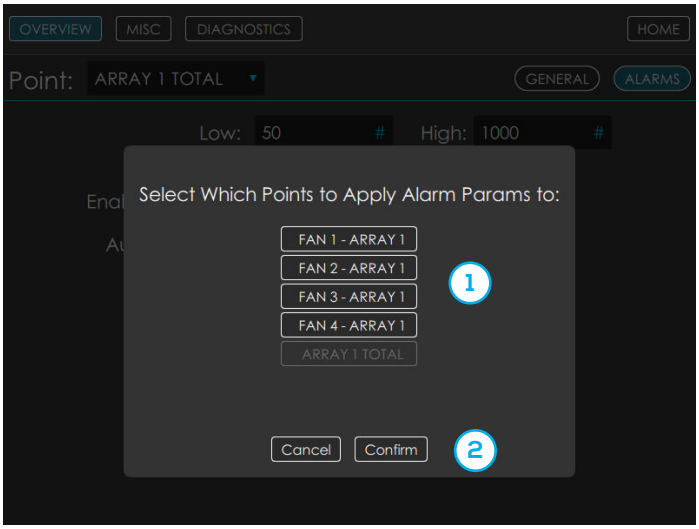
1. Enter alarm Low threshold value

⚠ Flow under this value will initiate an alarm condition

2. Enter alarm High threshold value

⚠ Flow above this value will initiate an alarm condition

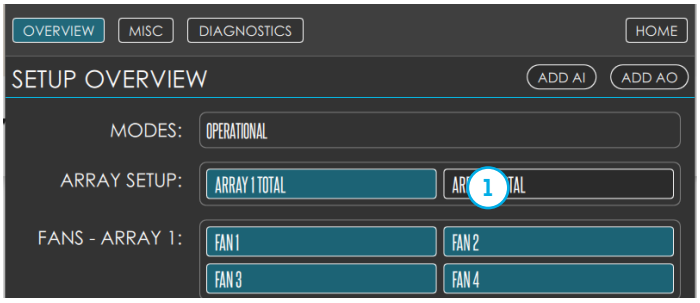
3. Enter time for alarm delay (Seconds)
4. Select whether to enable or disable visual alarm
5. Select whether to enable or disable audible alarm
6. If these alarm parameters are common for another Fan(s) - COPY ALARM PARAM will copy and paste the same alarm parameters configured above to other Fans.



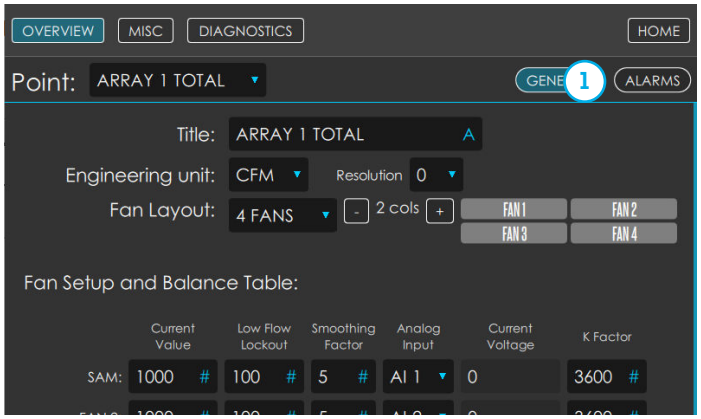
1. Select the additional Fan(s) that will have the same alarm parameters.
2. Select Confirm when finished.

QUICKSTART GUIDE

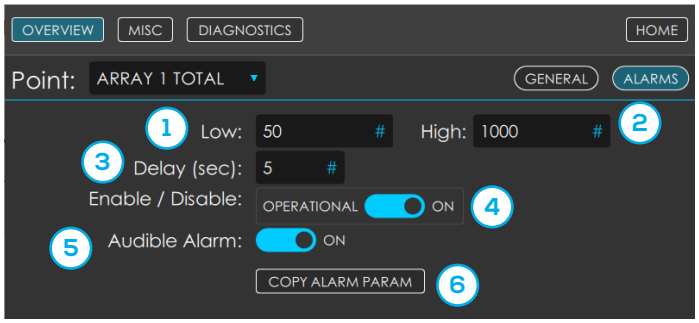
ARRAY ALARM



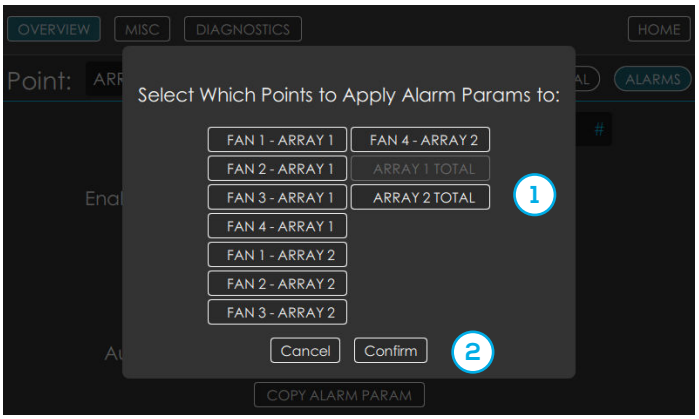
1. Select the desired array you want to setup alarm



1. Select ALARMS



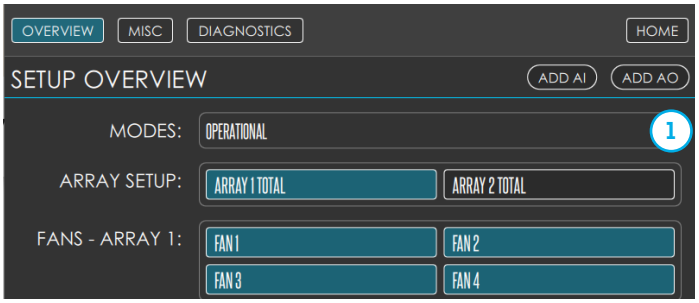
1. Enter alarm Low threshold value
   - ⚠ Flow under this value will initiate an alarm condition
2. Enter alarm High threshold value
   - ⚠ Flow above this value will initiate an alarm condition
3. Enter time for alarm delay (Seconds)
4. Select whether to enable or disable visual alarm
5. Select whether to enable or disable audible alarm
6. If these alarm parameters are common for another Array - COPY ALARM PARAM will copy and paste the same alarm parameters configured above to other Arrays.



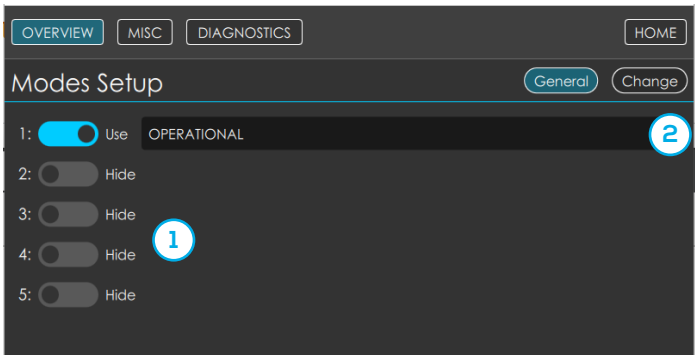
1. Select the additional Array that will have the same alarm parameters.
2. Select Confirm when finished.

QUICKSTART GUIDE

MODES



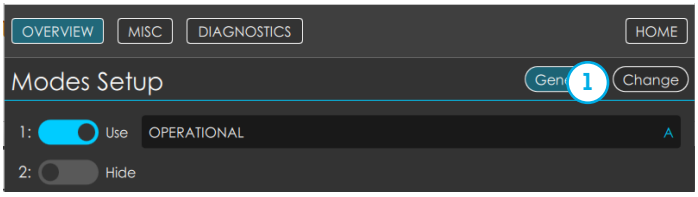
1 Select MODES



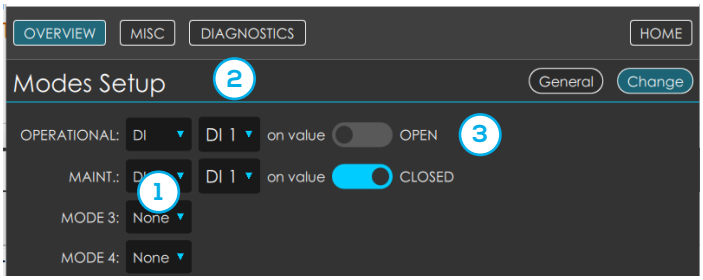
1 Select number of modes to be activated (up to 5).

⚠ Up to five configurable modes

2 Toggle name field to enter unique name for mode.



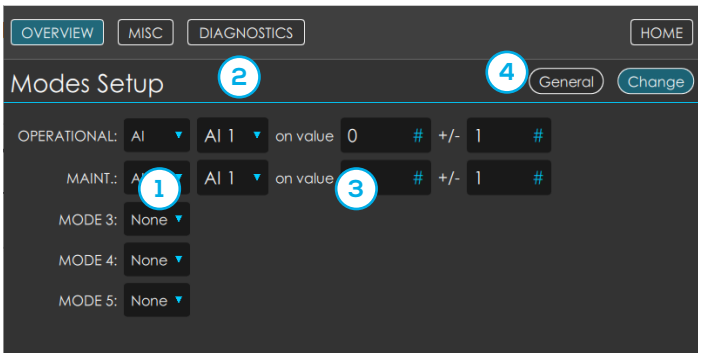
1 Select Change



1 Select Digital In (DI) as method for MODE change.

2 Enter which DI is being used to trigger a MODE change.

3 Select the specific digital input state that will trigger the mode change OPEN / CLOSED.



1 Select Analog Input (AI) as method for MODE change.

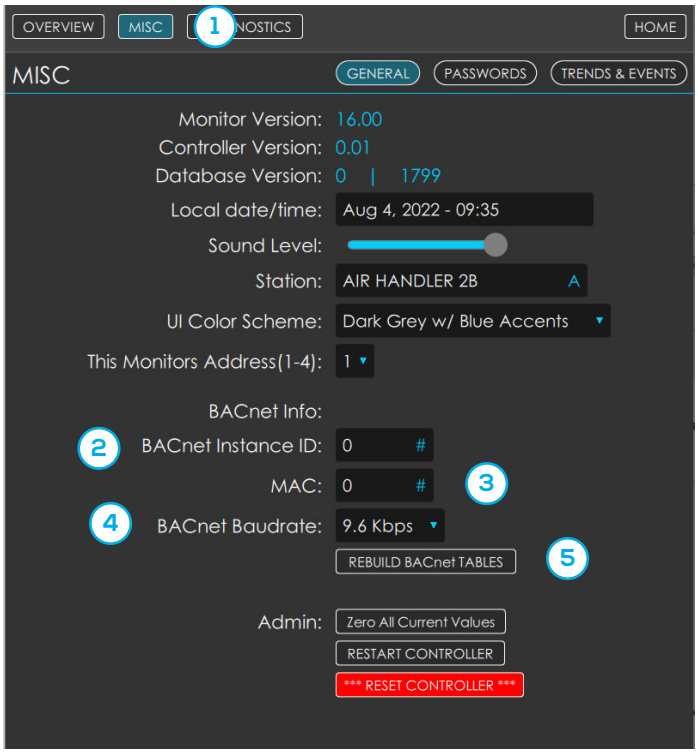
2 Enter which AI is being used to trigger a MODE change.

3 Select the specific analog input value that will trigger the mode change (0 to 10 V).

4 Set a signal buffer for the mode change trigger voltage value.

QUICKSTART GUIDE

NETWORK INFORMATION

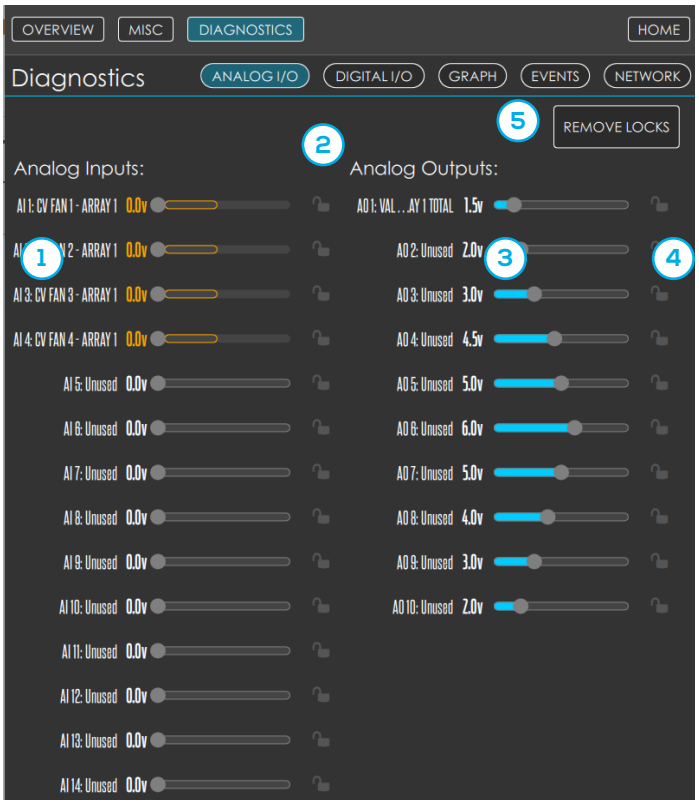


1. Select MISC and scroll down to access the devices BACnet® information.
2. Enter a BACnet® Instance ID (0 - 4,194,304)
3. Enter 3 a BACnet® MAC Address (0 - 127)
4. Select BACnet® MS/TP Baud Rate
5. Once all configuration is complete, touch REBUILD BACnet® TABLES to repopulate the BACnet® points for the device's current configuration.

⚠ This must be done anytime a point, analog input, or analog output is enabled or disabled on the device.

QUICKSTART GUIDE

TROUBLESHOOTING



⚠ The diagnostics screen is a trouble shooting tool that allows user to manipulate sensor inputs and analog outputs

1. Visual display of sensor voltage reading to transmitter.

⚠ Fan Inlet Probe sensor voltage range is 0.5 to 4.5 VDC

2. The sliders indicate the current analog input voltage values and can be used to verify a sensor is working or used to override a signal.

3. Display of transmitter voltage output.

⚠ XF5 voltage output range is: 0.0 to 10.0 VDC

4. The sliders indicate the current analog input voltage values and can be used to verify a sensor is working or used to override a signal.

5. REMOVE LOCKS button disables all overridden signals.

   Remove Locks Button must be touched prior to exiting the Diagnostics screen to return all signals to their active values.

NOTES

NOTES

criticalroom.com

Measure What Matters.

Critical Room Control
9275 North 49th Street
Brown Deer, WI 53223

414.324.8978
Sales@criticalroom.com

©2025 Critical Room Control | All Rights Reserved | XFS_01_B0042_Rev1.0