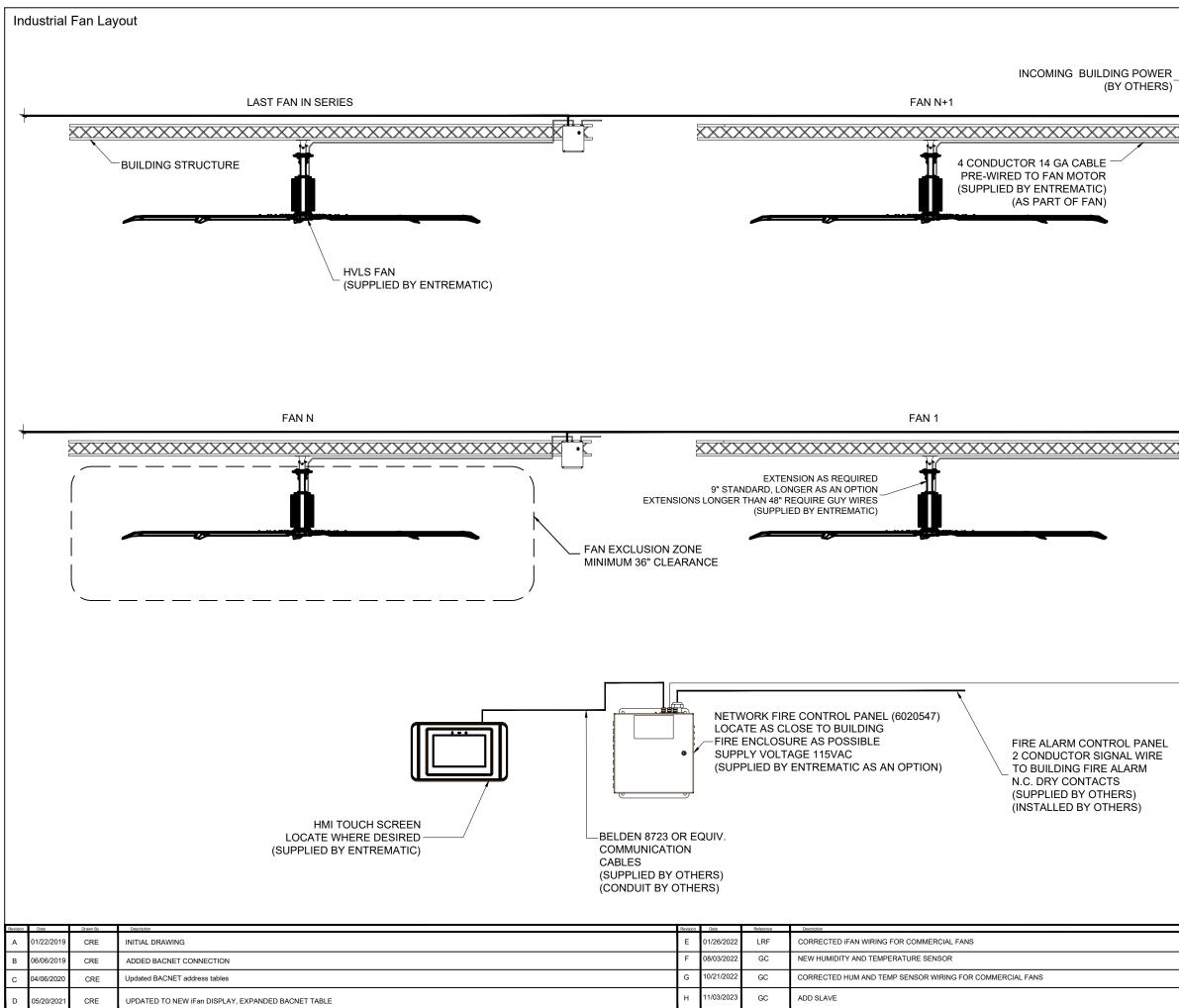


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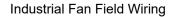
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	CRE	TBD Drawing Number:
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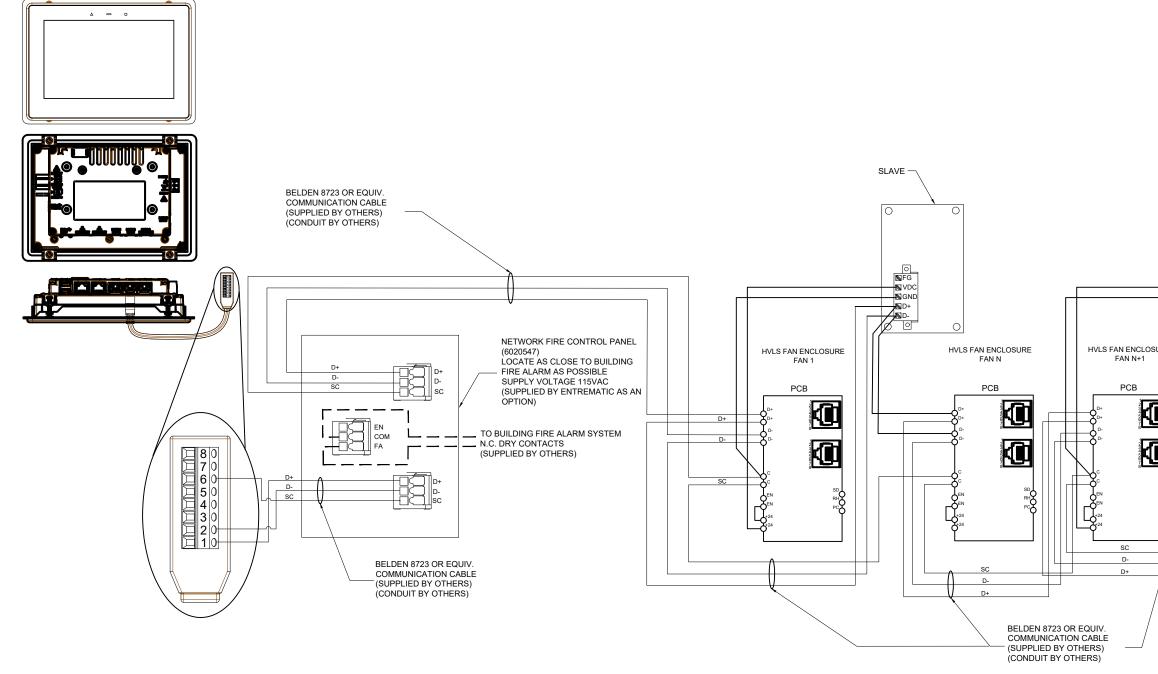
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	General           The information contained her confidential to 4Front Enginee be used solely for the express and development of the article may not be reproduced or diss permission of 4Front Engineer Engineered Solutions reserves product improvements without NOTES:           1)         BUILDING STRUCT SUPFICIENT TO SUPPORT INSTALLATION. CONSUL REGISTERED ARCHITECT PROFESSIONAL ENGINEE           2)         ELECTRICAL CONT SHALL ENSURE THAT ALL WORK MEETS LOCAL EL CODES.           3)         GENERAL CONTRA ENSURE EQUIPMENT INSTALLATION AND A SUPPORT SUPPORT SUPPORT SUPPORT AND A SUPPO	ein is property and red Solutions, and is to purpose of consideration described herein and seminated without the ed Solutions, 4/Front sthe right to incorporate prior notice. URE MUST BE THE FAN TA TA TA TA TA COR RACTOR L ELECTRICAL ECTRICAL CTOR SHALL TAULATION
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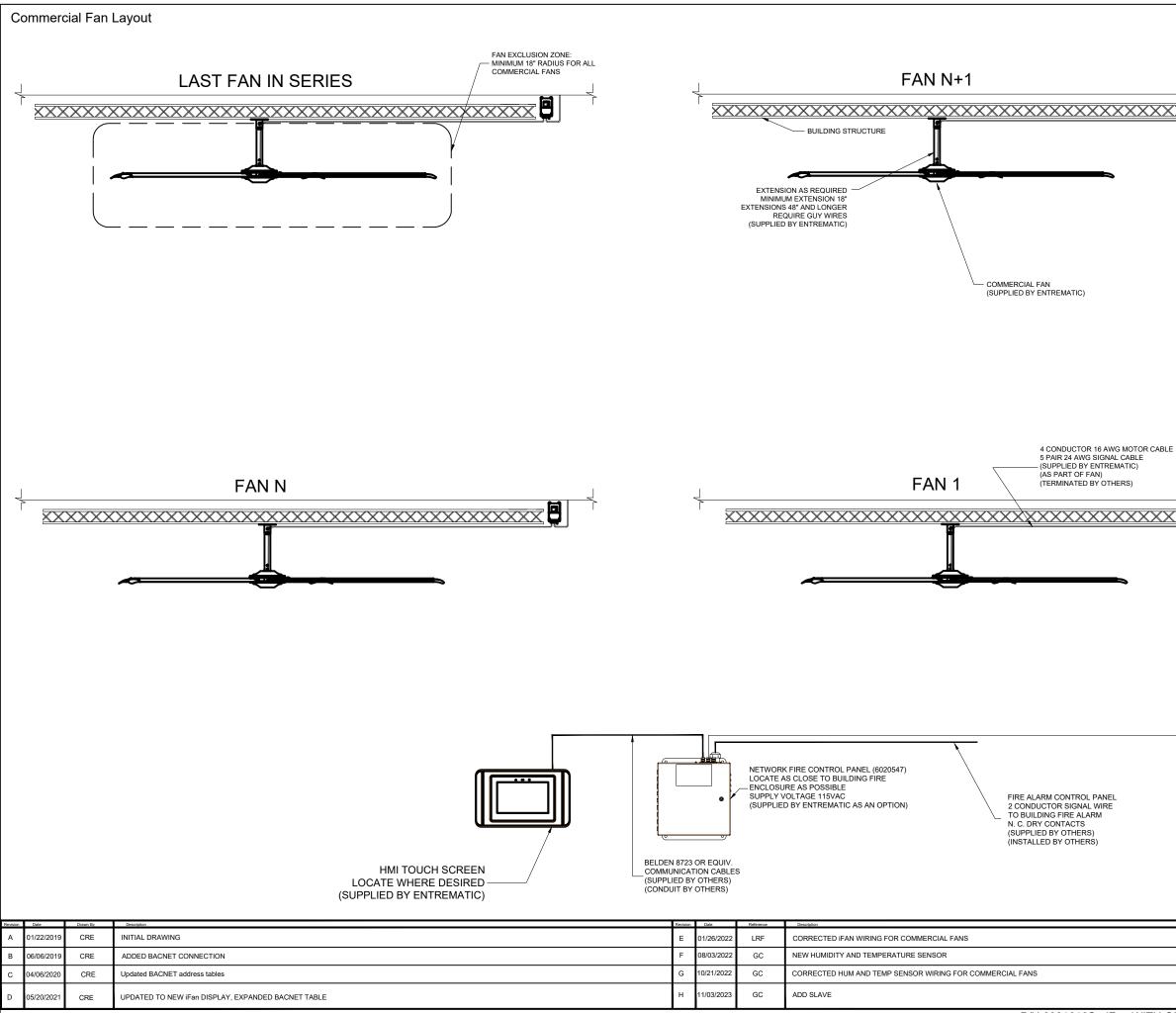




F	levision	Date	Drawn By	Description	Revision	Date	Reference	Description
	A 0	1/22/2019	CRE	INITIAL DRAWING	Е	01/26/2022	LRF	CORRECTED IFAN WIRING FOR COMMERCIAL FANS
Γ	в 0	6/06/2019	CRE	ADDED BACNET CONNECTION	F	08/03/2022	GC	NEW HUMIDITY AND TEMPERATURE SENSOR
Γ	C 04	4/06/2020	CRE	Updated BACNET address tables	G	10/21/2022	GC	CORRECTED HUM AND TEMP SENSOR WIRING FOR COMMERCIAL FANS
	D 0	5/20/2021	CRE	UPDATED TO NEW IFan DISPLAY, EXPANDED BACNET TABLE	н	11/03/2023	GC	ADD SLAVE

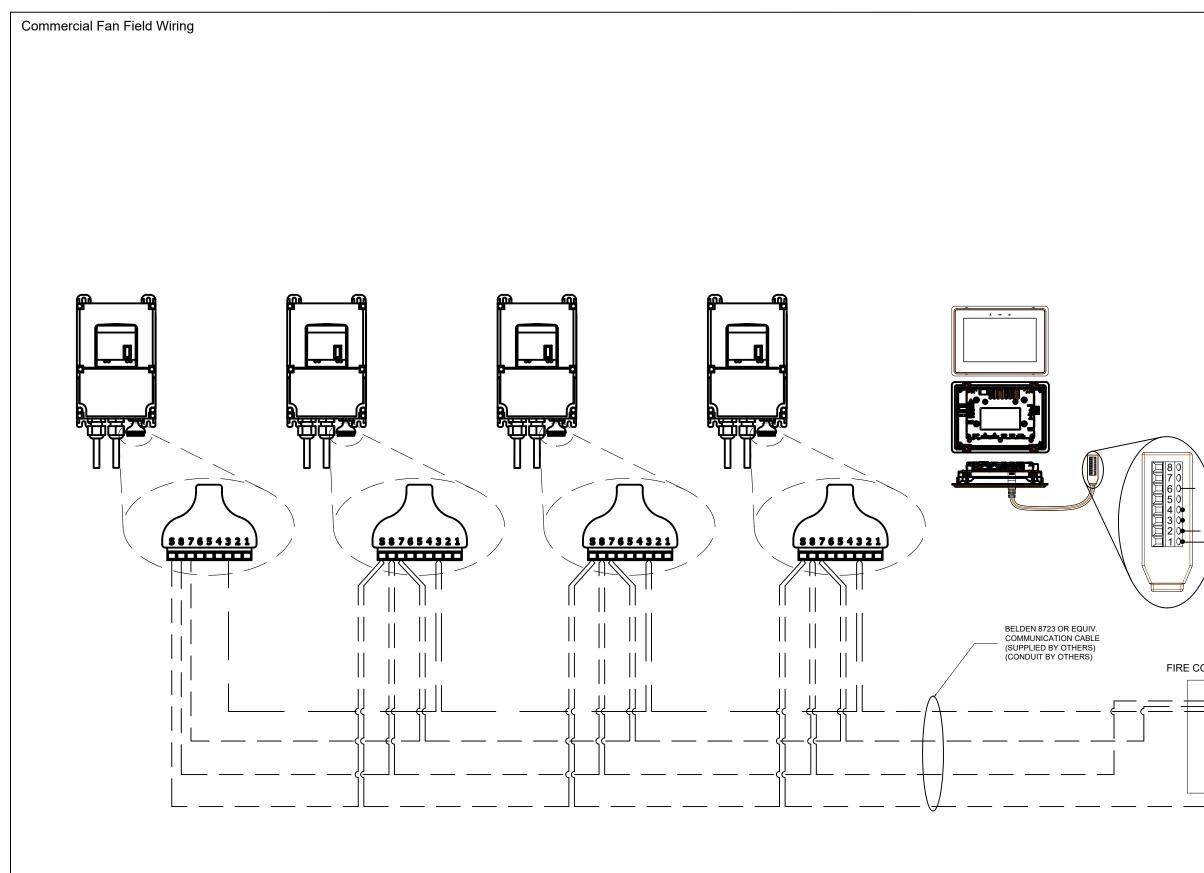
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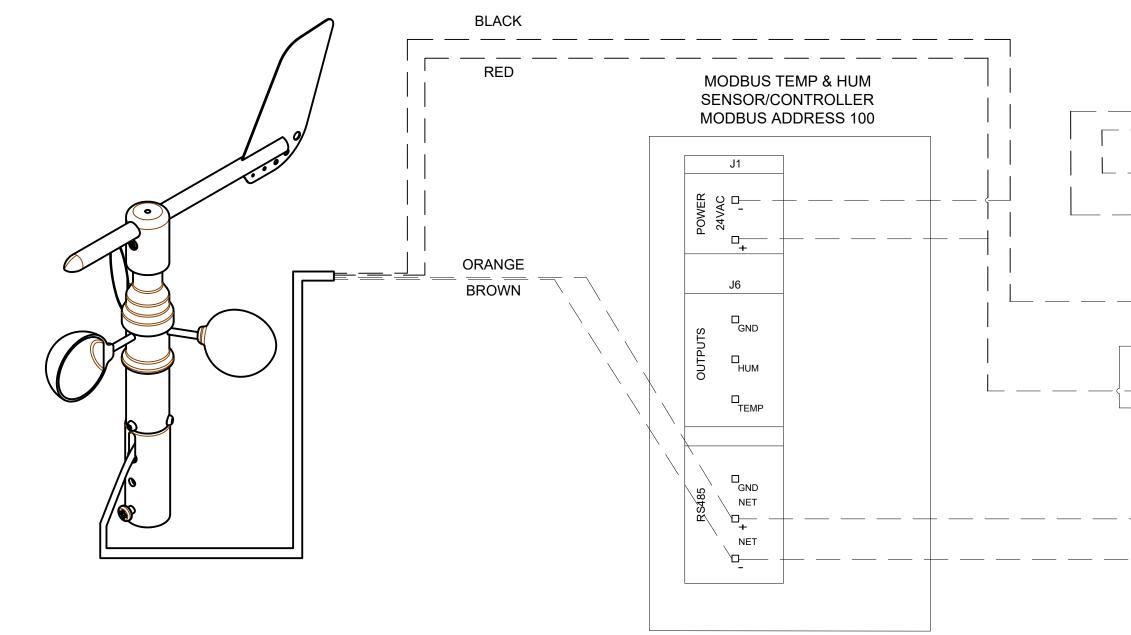
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	A 01/2	22/2019	CRE	INITIAL DRAWING	Е	01/26/2022	LRF	CORRECTED IFAN WIRING FOR COMMERCIAL FANS
	B 06/0	06/2019	CRE	ADDED BACNET CONNECTION	F	08/03/2022	GC	NEW HUMIDITY AND TEMPERATURE SENSOR
	C 04/0	06/2020	CRE	Updated BACNET address tables	G	10/21/2022	GC	CORRECTED HUM AND TEMP SENSOR WIRING FOR COMMERCIAL FANS
	D 05/2	20/2021	CRE	UPDATED TO NEW IFan DISPLAY, EXPANDED BACNET TABLE	н	11/03/2023	GC	ADD SLAVE

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## LEGEND

PANEL WIRING
 FIELD WIRING (BY OTHERS)
 PC BOARD TRACES

NOTE: TERMINALS WILL ACCEPT STRANDED WIRE ONLY

### WIRE COLOR/GAUGE (NFPA)

(unless otherwise specified) 208-600VAC: #14, BLK 120VAC: #16, RED 24VAC: #16, RED/BLK NEUTRAL: #16, WHT GROUND: GRN 24VDC: #12, BLU 24V COM (0VDC): #12, BLU/WHT 12VAC/VDC, #12, VIO 12V COM: #12, VIO/WHT DRY (UNPOWERED): #18, YLW

Re	ision	Date	Drawn By	Description	Revision	Date	Reference	Description
	۹ O	1/22/2019	CRE	INITIAL DRAWING	Е	01/26/2022	LRF	CORRECTED IFAN WIRING FOR COMMERCIAL FANS
	з 0	6/06/2019	CRE	ADDED BACNET CONNECTION	F	08/03/2022	GC	NEW HUMIDITY AND TEMPERATURE SENSOR
	C 04	4/06/2020	CRE	Updated BACNET address tables	G	10/21/2022	GC	CORRECTED HUM AND TEMP SENSOR WIRING FOR COMMERCIAL FANS
	0 05	5/20/2021	CRE	UPDATED TO NEW IFan DISPLAY, EXPANDED BACNET TABLE	н	11/03/2023	GC	ADD SLAVE

		General	Notes
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PCB         Discrete point         Discrete point <thdiscrete point<="" th="">         Discrete point</thdiscrete>		1) ELECTRICAL CONTRAC	TOR SHALL
PCB         CALL CONDUCTIVITY DIFIERS           0         0         0<		MEETS LOCAL ELECTRIC	AL CODES.
Dr.         0           Dr.         0           C         0           C         0           C         0           C         0           C         0           PR         PC	<u>PC</u> B	CABLE BELDEN 8723	
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1612 Hutton Drive, Suite 140 Carroliton, TX 75006           Drawn By: CRE         Regional Sale Manager: TBD           Date: 08/03/2022         Drawing Number: 6021616S           Scale:         Sheet Number: 6 OF 11         Rev: H			
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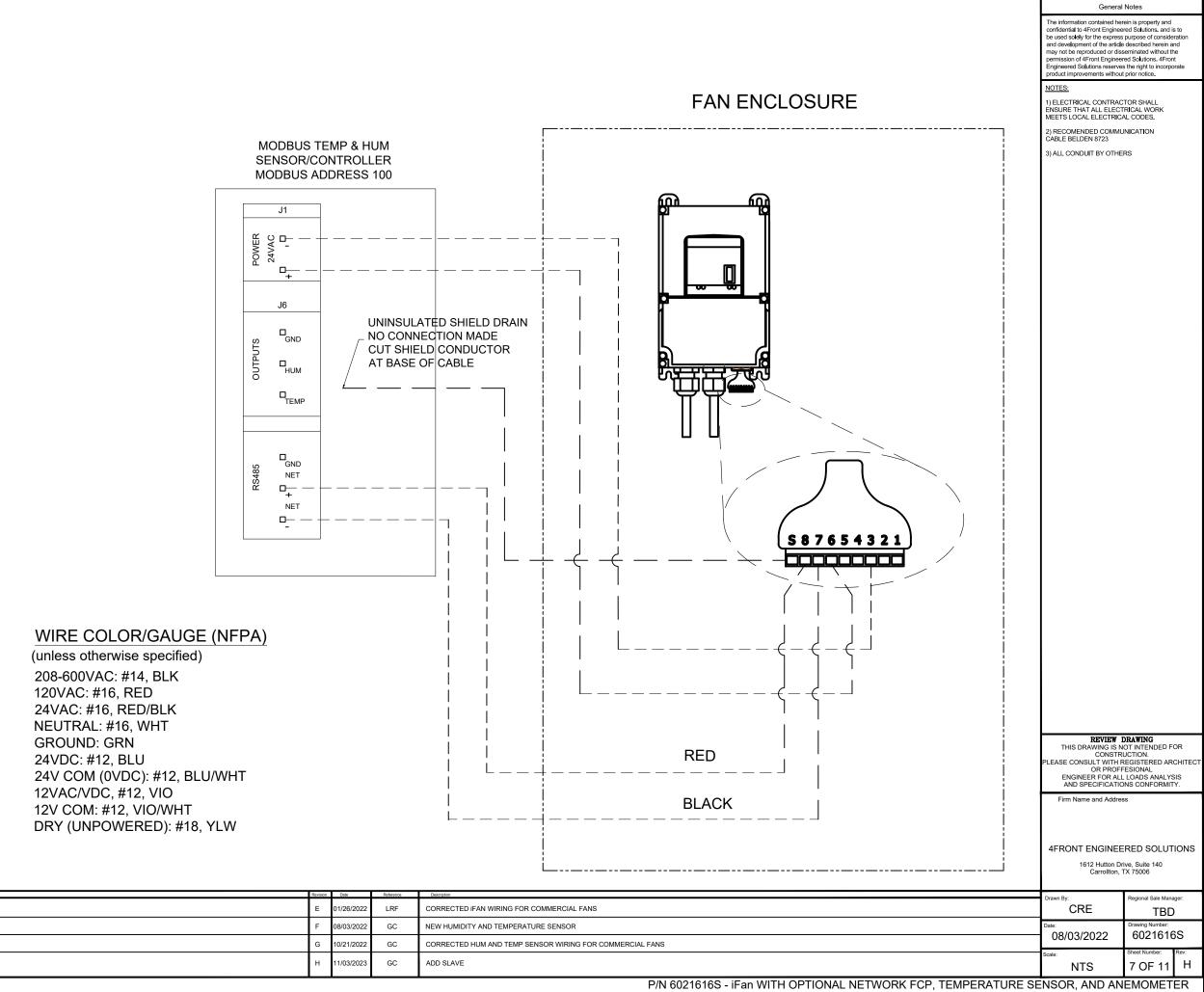
PANEL WIRING

TERMINALS WILL ACCEPT

STRANDED WIRE ONLY

PC BOARD TRACES

FIELD WIRING (BY OTHERS)



Revision	Date	Drawn By	Description	Revision	Date	Reference	Description	
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D	05/20/2021	CRE	UPDATED TO NEW IFan DISPLAY, EXPANDED BACNET TABLE	н	11/03/2023	GC	ADD SLAVE	

## BACnet Mapping

Fan	BACnet Address	Register Description	Expected Data	Result/Status	Notes
			0	Stop	
	AO0001	Fan Mode	1	Start	
	100001	Tan Mode	2	Temp Run Mode	Option, have to have temp sensor option
L			3	Humidity Run Mode	Option, have to have humidity sensor option
	AO0002	Direction	-1	Reverse	
	A00002	Direction	1	Forward	
Г	AO0003	Speed set	1-10	Speed	
	AO0004	Fam Reset	> 0	Fault Reset	Only reset in the case of a fault condition
Г			1	Drive Running	
Fan 1	AI0001	Fan Status	2	Forward	
			4	Reverse	
- F				VFD outpt	
	AI0002	Motor speed	0-200	frequency/RPM	Max frequency can vary based on size of fan
Г	AI0003	Motor Current	0-5	VFD Output Current	
	AI0004	Fault Code	*	See Table	Fault Codes listed in Fault code table
			0	Fire Alarm Activated	0 = False
	AI0097	Input Jumper/Fire Alarm Contact	1	No Fire Alarm	1 = True
- F			0	Good communication	0 = False
	AI0098	Fan LOC	1	No communication	1 = True
- 1			0	Stop	I = ITUE
	AO0005	Fan Mode	1	Start Town Down Manda	Outline have to have taken a second section
1			2	Temp Run Mode	Option, have to have temp sensor option
L		I	3	Humidity Run Mode	Option, have to have humidity sensor option
	AO0006	Direction	-1	Reverse	
		Direction	1	Forward	
Г	AO0007	Speed set	1-10	Speed	
	AO0008	Fam Reset	> 0	Fault Reset	Only reset in the case of a fault condition
Г			1	Drive Running	
Fan 2	AI0005	Fan Status	2	Forward	
			4	Reverse	
- F				VFD outpt	
	AI0006	Motor speed	0-200	frequency/RPM	Max frequency can vary based on size of fan
	AI0007	Motor Current	0-5	VFD Output Current	
	AI0008	Fault Code	*	See Table	Fault Codes listed in Fault code table
F			0	Fire Alarm Activated	0 = False
	AI0099	Input Jumper/Fire Alarm Contact	1	No Fire Alarm	1 = True
			0	Good communication	0 = False
	AI00100	Fan LOC			
- 1			1	No communication Stop	1 = True
			0		
	AO0009	Fan Mode	1	Start Town Down Manda	Option have to have to react an option
			2	Temp Run Mode	Option, have to have temp sensor option
- H			3	Humidity Run Mode	Option, have to have humidity sensor option
	AO0010	Direction	-1	Reverse	
			1	Forward	
L	AO0011	Speed set	1-10	Speed	
	AO0012	Fam Reset	> 0	Fault Reset	Only reset in the case of a fault condition
			1	Drive Running	
Fan 3	AI0009	Fan Status	2	Forward	
			4	Reverse	
				VFD outpt	
	AI0010	Motor speed	0-200	frequency/RPM	Max frequency can vary based on size of fan
Г	AI0011	Motor Current	0-5	VFD Output Current	
	AI0012	Fault Code	*	See Table	Fault Codes listed in Fault code table
- F			0	Fire Alarm Activated	0 = False
1	AI0101	Input Jumper/Fire Alarm Contact	1	No Fire Alarm	1 = True
H			0	Good communication	0 = False
	AI0102	Fan LOC	1	No communication	1 = True
				Stop	1 - 1100
1			0		
1	AO0013	Fan Mode	1	Start	Option have to have 1
1		1	2	Temp Run Mode	Option, have to have temp sensor option
L			3	Humidity Run Mode	Option, have to have humidity sensor option
	AO0014	Direction	-1	Reverse	
L			1	Forward	
Г	AO0015	Speed set	1-10	Speed	
	AO0016	Fam Reset	> 0	Fault Reset	Only reset in the case of a fault condition
F			1	Drive Running	
Fan 4	AI0013	Fan Status	2	Forward	
1		1	4	Reverse	
H			+	VFD outpt	
	AI0014	Motor speed	0-200	frequency/RPM	Max frequency can vary based on size of fan
– F	AI0014	Motor Current	0-200	VFD Output Current	
H		Fault Code	*		Foult Codes listed in Foult and table
H	AI0016	Fault Code		See Table Fire Alarm Activated	Fault Codes listed in Fault code table
1	AI0103	Input Jumper/Fire Alarm Contact	0		0 = False
F			1	No Fire Alarm	1 = True
	AI0104	Fan LOC	0	Good communication	0 = False
			1	No communication	1 = True

Fan	BACnet Address	Register Description	Expected Data	Result/Status	Notes
			0	Stop	
	AO0017	Fan Mode	1	Start	
			2	Temp Run Mode Humidity Run Mode	Option, have to have temp sensor option
			-1	Reverse	Option, have to have humidity sensor option
	AO0018	Direction	-1	Forward	
	A00019	Speed set	1-10	Speed	
	A00020	Fam Reset	> 0	Fault Reset	Only reset in the case of a fault condition
			1	Drive Running	
Fan 5	AI0017	Fan Status	2	Forward	
			4	Reverse	
	AI0018	Motor speed	0-200	VFD outpt frequency/RPM	Max frequency can vary based on size of fan
	AI0018	Motor Current	0-5	VFD Output Current	
	AI0020	Fault Code	*	See Table	Fault Codes listed in Fault code table
	AI0105	Input Jumper/Fire Alarm Contact	0	Fire Alarm Activated	0 = False
	AI0105	input sumper/rite Alarm contact	1	No Fire Alarm	1 = True
	AI0106	Fan LOC	0	Good communication	0 = False
			1	No communication	1 = True
			0	Stop	
	AO0021	Fan Mode	2	Start Temp Run Mode	Option, have to have temp sensor option
			3	Humidity Run Mode	Option, have to have humidity sensor option
			-1	Reverse	
	AO0022	Direction	1	Forward	
	AO0023	Speed set	1-10	Speed	
	A00024	Fam Reset	> 0	Fault Reset	Only reset in the case of a fault condition
			1	Drive Running	
Fan 6	AI0021	Fan Status	2	Forward	
			4	Reverse VFD outpt	
	AI0022	Motor speed	0-200	frequency/RPM	Max frequency can vary based on size of fan
	AI0023	Motor Current	0-5	VFD Output Current	
	AI0024	Fault Code	*	See Table	Fault Codes listed in Fault code table
	AI0107	Input Jumper/Fire Alarm Contact	0	Fire Alarm Activated	0 = False
			1	No Fire Alarm	1 = True
	AI0108	Fan LOC	0	Good communication	0 = False
			0	No communication Stop	1 = True
			1	Start	
	AO0025	Fan Mode	2	Temp Run Mode	Option, have to have temp sensor option
			3	Humidity Run Mode	Option, have to have humidity sensor option
	A00026	Direction	-1	Reverse	
			1	Forward	
	A00027	Speed set	1-10	Speed	
	A00008	Fam Reset	> 0	Fault Reset	Only reset in the case of a fault condition
Fan 7	AI0025	Fan Status	2	Drive Running	
	A10025		4	Forward Reverse	
				VFD outpt	
	AI0026	Motor speed	0-200	frequency/RPM	Max frequency can vary based on size of fan
	AI0027	Motor Current	0-5	VFD Output Current	
	AI0028	Fault Code	*	See Table	Fault Codes listed in Fault code table
	AI0109	Input Jumper/Fire Alarm Contact	0	Fire Alarm Activated	0 = False
			0	No Fire Alarm Good communication	1 = True 0 = False
	AI0110	Fan LOC	1	No communication	1 = True
			0	Stop	
	AO0029	For Made	1	Start	
	A00023	Fan Mode	2	Temp Run Mode	Option, have to have temp sensor option
			3	Humidity Run Mode	Option, have to have humidity sensor option
	AO0030	Direction	-1	Reverse	
	400031	Speed set	1	Forward Speed	
	AO0031 AO0032	Fam Reset	1-10 > 0	Fault Reset	Only reset in the case of a fault condition
	A00032	Tan Neset	1	Drive Running	
Fan 8	AI0029	Fan Status	2	Forward	
			4	Reverse	
		Mattana		VFD outpt	May francisco a secondaria de la construcción de
	A10030	Motor speed	0-200	frequency/RPM VFD Output Current	Max frequency can vary based on size of fan
	AI0031 AI0032	Motor Current Fault Code	0-5	See Table	Fault Codes listed in Fault code table
			0	Fire Alarm Activated	0 = False
	AI0111	Input Jumper/Fire Alarm Contact	1	No Fire Alarm	1 = True
	410110	F	0	Good communication	0 = False
	AI0112	Fan LOC	1	No communication	1 = True

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Fan	BACnet Address	Register Description	Expected Data	Result/Status	Notes	product improvements witho	ut prior notice.
			0	Stop		NOTES:	
	400033	For Made	1	Start		1) ELECTRICAL CONTRA	
	AO0033	Fan Mode	2	Temp Run Mode	Option, have to have temp sensor option	ENSURE THAT ALL ELEC MEETS LOCAL ELECTRIC	
			3	Humidity Run Mode	Option, have to have humidity sensor option	2) RECOMENDED COMM	
	AO0034	Direction	-1	Reverse		CABLE BELDEN 8723	UNICATION
-	A00035	Speed set	1 1-10	Forward Speed		3) ALL CONDUIT BY OTH	FRS
	A00035	Fam Reset	>0	Fault Reset	Only reset in the case of a fault condition		
			1	Drive Running		11	
Fan 9	AI0033	Fan Status	2	Forward		]	
			4	Reverse			
	AI0034	Motor speed	0-200	VFD outpt frequency/RPM	Max frequency can vary based on size of fan		
	AI0035	Motor Current	0-5	VFD Output Current		11	
	AI0036	Fault Code	*	See Table	Fault Codes listed in Fault code table	1	
	AI0113	Input Jumper/Fire Alarm Contact	0	Fire Alarm Activated	0 = False		
		F F.Y. F	1	No Fire Alarm	1 = True	41	
	AI0114	Fan LOC	0	Good communication	0 = False 1 = True	41	
			0	Stop	1 100	11	
	AO0037	Fan Manda	1	Start		11	
	AUUU37	Fan Mode	2	Temp Run Mode	Option, have to have temp sensor option	]]	
			3	Humidity Run Mode	Option, have to have humidity sensor option	41	
	AO0038	Direction	-1	Reverse		- 1	
	AO0039	Speed set	1 1-10	Forward Speed		11	
	A00035	Fam Reset	> 0	Fault Reset	Only reset in the case of a fault condition	11	
			1	Drive Running		]	
Fan 10	AI0037	Fan Status	2	Forward		41	
			4	Reverse		41	
	AI0038	Motor speed	0-200	VFD outpt frequency/RPM	Max frequency can vary based on size of fan	11	
İ	AI0039	Motor Current	0-5	VFD Output Current		]	
	AI0040	Fault Code	*	See Table	Fault Codes listed in Fault code table	41	
	AI0115	Input Jumper/Fire Alarm Contact	0	Fire Alarm Activated	0 = False	41	
			1 0	No Fire Alarm Good communication	1 = True 0 = False		
	AI0116	Fan LOC	1	No communication	1 = True	11	
			0	Stop		11	
	AO0041	Fan Mode	1	Start			
		-	2	Temp Run Mode	Option, have to have temp sensor option	41	
			3	Humidity Run Mode	Option, have to have humidity sensor option		
	AO0042	Direction	-1	Reverse Forward		11	
	AO0043	Speed set	1-10	Speed		11	
[	AO0044	Fam Reset	> 0	Fault Reset	Only reset in the case of a fault condition	]	
Ea= 14			1	Drive Running		41	
Fan 11	AI0041	Fan Status	2	Forward		41	
			4	Reverse VFD outpt		11	
	AI0042	Motor speed	0-200	frequency/RPM	Max frequency can vary based on size of fan	41	
	AI0043	Motor Current	0-5	VFD Output Current		41	
	AI0044	Fault Code	*	See Table Fire Alarm Activated	Fault Codes listed in Fault code table 0 = False	41	
	AI0117	Input Jumper/Fire Alarm Contact	1	No Fire Alarm	0 = Faise 1 = True	11	
	AI0118	Fan LOC	0	Good communication	0 = False	11	
	AIUTIQ	FailLUC	1	No communication	1 = True	11	
l T			0	Stop		41	
	AO0045	Fan Mode	1	Start Temp Rup Mode	Option have to have tomp concer entire	41	
			2	Temp Run Mode Humidity Run Mode	Option, have to have temp sensor option Option, have to have humidity sensor option	4 <b>I</b>	
			-1	Reverse		11	
	AO0046	Direction	1	Forward		11	
[	AO0047	Speed set	1-10	Speed		<b>↓  </b>	
	AO0048	Fam Reset	>0	Fault Reset	Only reset in the case of a fault condition	41	
Fan 12	AI0045	Fan Status	1	Drive Running		REVIEW	DRAWING
	-10043	ran status	2 4	Forward Reverse		THIS DRAWING IS	NOT INTENDED FOR
				VFD outpt		PLEASE CONSULT WITH	RUCTION. REGISTERED ARCHITECT
	AI0046	Motor speed	0-200	frequency/RPM	Max frequency can vary based on size of fan	OR PROF	FESIONAL LL LOADS ANALYSIS
	AI0047	Motor Current Fault Code	0-5 *	VFD Output Current	Fault Codes listed in Fault and statis		ONS CONFORMITY.
	AI0048	Fault Code	0	See Table Fire Alarm Activated	Fault Codes listed in Fault code table 0 = False	Firm Name and Addre	ess
	AI0119	Input Jumper/Fire Alarm Contact	1	No Fire Alarm	1 = True		
	AI0120	Fan LOC	0	Good communication	0 = False	]	
	, 10120	Tantoo	1	No communication	1 = True	]]	
							ERED SOLUTIONS Drive, Suite 140 TX 75006
S						Drawn By: CRE	Regional Sale Manager: TBD
	RCIAL FANS					Date: 08/03/2022	Drawing Number: 6021616S Sheet Number: Rev:
						scale: NTS	8 OF 11 H
	P/N 6	021616S - iFan WI	TH OPTIC	ONAL NETWO	RK FCP, TEMPERATURE	SENSOR, AND A	NEMOMETER

General Notes

Re	rision	Date	Drawn By	Description	Revision	Date	Reference	Description
	۹ O	1/22/2019	CRE	INITIAL DRAWING	Е	01/26/2022	LRF	CORRECTED IFAN WIRING FOR COMMERCIAL FANS
	з 0	6/06/2019	CRE	ADDED BACNET CONNECTION	F	08/03/2022	GC	NEW HUMIDITY AND TEMPERATURE SENSOR
F		4/06/2020 6/2022	CRE GC	Updated BACNET address tables NEW HUMIDITY AND TEMPERATURE SENSOR	G	10/21/2022	GC	CORRECTED HUM AND TEMP SENSOR WIRING FOR COMMERCIAL FANS
	0	5/20/2021	CRE	UPDATED TO NEW IFan DISPLAY, EXPANDED BACNET TABLE	Н	11/03/2023	GC	ADD SLAVE

# BACnet Mapping Cont.

Fan	BACnet Address	Register Description	Expected Data	Result/Status	Notes
			0	Stop	
	AO0049	Fan Mode	1	Start	
			2	Temp Run Mode	Option, have to have temp sensor option
-			3	Humidity Run Mode	Option, have to have humidity sensor option
	AO0050	Direction	-1	Reverse	
			1	Forward	
I	A00051	Speed set	1-10	Speed	
I	A00052	Fam Reset	> 0	Fault Reset	Only reset in the case of a fault condition
			1	Drive Running	
Fan 13	AI0049	Fan Status	2	Forward	
I			4	Reverse	
				VFD outpt	
I	AI0050	Motor speed	0-200	frequency/RPM	Max frequency can vary based on size of fan
I	AI0051	Motor Current	0-5	VFD Output Current	
I	AI0052	Fault Code	*	See Table	Fault Codes listed in Fault code table
	AI0121	Input Jumper/Fire Alarm Contact	0	Fire Alarm Activated	0 = False
I	-		1	No Fire Alarm	1 = True
	AI0122	Fan LOC	0	Good communication	0 = False
	7110122	1411200	1	No communication	1 = True
			0	Stop	
	400053	For Mode	1	Start	
	AO0053	Fan Mode	2	Temp Run Mode	Option, have to have temp sensor option
			3	Humidity Run Mode	Option, have to have humidity sensor option
ł			-1	Reverse	
	AO0054	Direction	1	Forward	
ł	A00055	Speed set	1-10	Speed	
ł	A00056	Fam Reset	>0	Fault Reset	Only reset in the case of a fault condition
ł	100000	Turreset	1	Drive Running	
Fan 14	AI0053	Fan Status	2	Forward	
	A10055	Tan status	4		
			4	Reverse VFD outpt	
	AI0054	Motor speed	0-200	frequency/RPM	Max frequency can vary based on size of fan
ł	AI0055	Motor Current	0-5	VFD Output Current	
ł	AI0056	Fault Code	*	See Table	Fault Codes listed in Fault code table
ł		Table Code	0	Fire Alarm Activated	0 = False
	AI0123	Input Jumper/Fire Alarm Contact	1	No Fire Alarm	1 = True
ł			0	Good communication	0 = False
	AI0124	Fan LOC			
			1	No communication Stop	1 = True
			0		
	A00057	Fan Mode	1	Start	
			2	Temp Run Mode	Option, have to have temp sensor option
			3	Humidity Run Mode	Option, have to have humidity sensor option
	AO0058	Direction	-1	Reverse	
I			1	Forward	
I	A00059	Speed set	1-10	Speed	
I	AO0060	Fam Reset	> 0	Fault Reset	Only reset in the case of a fault condition
			1	Drive Running	
Fan 15	AI0057	Fan Status	2	Forward	
			4	Reverse	
Ī				VFD outpt	
I	AI0058	Motor speed	0-200	frequency/RPM	Max frequency can vary based on size of fan
ļ	AI0059	Motor Current	0-5	VFD Output Current	
ļ	AI0060	Fault Code	*	See Table	Fault Codes listed in Fault code table
	AI0125	Input Jumper/Fire Alarm Contact	0	Fire Alarm Activated	0 = False
ļ			1	No Fire Alarm	1 = True
	AI0126	Fan LOC	0	Good communication	0 = False
	A10120	Tantoc	1	No communication	1 = True
T			0	Stop	
	100061	Ean Mada	1	Start	
	A00061	Fan Mode	2	Temp Run Mode	Option, have to have temp sensor option
			3	Humidity Run Mode	Option, have to have humidity sensor option
l	100000	Disc. if	-1	Reverse	
	AO0062	Direction	1	Forward	
t	AO0063	Speed set	1-10	Speed	
L	A00064	Fam Reset	> 0	Fault Reset	Only reset in the case of a fault condition
			1	Drive Running	
		Fan Status	2	Forward	1
Fan 16	AI0061	Fan Status	4	Reverse	1
Fan 16	AI0061		4	VFD outpt	
Fan 16	AI0061				
Fan 16		Motor speed			Max frequency can vary based on size of fan
Fan 16	A10062	Motor speed	0-200	frequency/RPM	Max frequency can vary based on size of fan
Fan 16	A10062 A10063	Motor Current	0-200 0-5	frequency/RPM VFD Output Current	
Fan 16	A10062		0-200 0-5 *	frequency/RPM VFD Output Current See Table	Fault Codes listed in Fault code table
Fan 16	A10062 A10063	Motor Current	0-200 0-5 * 0	frequency/RPM VFD Output Current See Table Fire Alarm Activated	Fault Codes listed in Fault code table 0 = False
Fan 16	A10062 A10063 A10064	Motor Current Fault Code	0-200 0-5 *	frequency/RPM VFD Output Current See Table	Fault Codes listed in Fault code table

Fan	BACnet Address	Register Description	Expected Data	Result/Status	Notes
			0	Stop	
	AO0065	Fan Mode	1	Start Temp Run Mode	Orthog have to have taken and another
			2		Option, have to have temp sensor option
			3	Humidity Run Mode	Option, have to have humidity sensor option
	AO0066	Direction	-1	Reverse Forward	
	A00067	Speed set	1 1-10	Speed	
	A00068	Fam Reset	>0	Fault Reset	Only reset in the case of a fault condition
	100000		1	Drive Running	
Fan 17	AI0065	Fan Status	2	Forward	
			4	Reverse	
				VFD outpt	
	AI0066	Motor speed	0-200	frequency/RPM	Max frequency can vary based on size of fan
	AI0067	Motor Current	0-5	VFD Output Current	
	AI0068	Fault Code	*	See Table	Fault Codes listed in Fault code table
	AI0129	Input Jumper/Fire Alarm Contact	0	Fire Alarm Activated	0 = False
			1	No Fire Alarm	1 = True
	AI0130	Fan LOC	0	Good communication	0 = False
			1	No communication Stop	1 = True
			1	Start	
	AO0069	Fan Mode	2	Temp Run Mode	Option, have to have temp sensor option
			3	Humidity Run Mode	Option, have to have humidity sensor option
			-1	Reverse	
	AO0070	Direction	1	Forward	
	A00071	Speed set	1-10	Speed	
	A00072	Fam Reset	> 0	Fault Reset	Only reset in the case of a fault condition
			1	Drive Running	
Fan 18	AI0069	Fan Status	2	Forward	
			4	Reverse	
		Motor speed		VFD outpt	May from your your board on size of for
	AI0070 AI0071	Motor Current	0-200	frequency/RPM VFD Output Current	Max frequency can vary based on size of fan
	AI0071 AI0072	Fault Code	*	See Table	Fault Carlos listed in Fault and a table
	AI0072	Fault Code	0	Fire Alarm Activated	Fault Codes listed in Fault code table 0 = False
	AI0131	Input Jumper/Fire Alarm Contact	1	No Fire Alarm	1 = True
			0	Good communication	0 = False
	AI0132	Fan LOC	1	No communication	1 = True
			0	Stop	
	A00073	For Made	1	Start	
	A00073	Fan Mode	2	Temp Run Mode	Option, have to have temp sensor option
			3	Humidity Run Mode	Option, have to have humidity sensor option
	AO0074	Direction	-1	Reverse	
			1	Forward	
	A00075	Speed set	1-10	Speed	Only most in the same of a fault and distant
	AO0076	Fam Reset	> 0	Fault Reset	Only reset in the case of a fault condition
Fan 19	AI0073	Fan Status	1	Drive Running	
19	AI0075	Fall Status	2 4	Forward	
			4	Reverse VFD outpt	
	AI0074	Motor speed	0-200	frequency/RPM	Max frequency can vary based on size of fan
	AI0075	Motor Current	0-5	VFD Output Current	
	AI0076	Fault Code	*	See Table	Fault Codes listed in Fault code table
	AI0133	Input Jumper/Fire Alarm Contact	0	Fire Alarm Activated	0 = False
			1	No Fire Alarm	1 = True
	AI0134	Fan LOC	0	Good communication	0 = False
			1	No communication	1 = True
			0	Stop	
	A00077	Fan Mode	1	Start Temp Run Mode	Option, have to have temp sensor option
			2	Humidity Run Mode	Option, have to have temp sensor option Option, have to have humidity sensor option
			-1	Reverse	
	AO0078	Direction	1	Forward	
	A00079	Speed set	1-10	Speed	
	A00080	Fam Reset	>0	Fault Reset	Only reset in the case of a fault condition
			1	Drive Running	
Fan 20	AI0077	Fan Status	2	Forward	
			4	Reverse	
		Matter		VFD outpt	May from the state of the state
	AI0078	Motor speed	0-200	frequency/RPM VFD Output Current	Max frequency can vary based on size of fan
	AI0079 AI0080	Motor Current	0-5 *		Fault Codes listed in Fault and a table
	A10080	Fault Code	0	See Table Fire Alarm Activated	Fault Codes listed in Fault code table 0 = False
	AI0135	Input Jumper/Fire Alarm Contact	1	No Fire Alarm	1 = True
			0	Good communication	0 = False
	AI0136	Fan LOC	1	No communication	1 = True

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Fan	BACnet Address	Register Description	Expected Data	Result/Status	Notes		a phor house.
			0	Stop		NOTES:	
	A00081	Fan Mode	2	Start Temp Run Mode	Option, have to have temp sensor option	1) ELECTRICAL CONTRAC ENSURE THAT ALL ELEC	TOR SHALL
			3	Humidity Run Mode	Option, have to have humidity sensor option	MEETS LOCAL ELECTRIC	AL CODES.
	100000	Disastina	-1	Reverse		2) RECOMENDED COMM	JNICATION
	A00082	Direction	1	Forward		CABLE BELDEN 8723	
	A00083	Speed set	1-10	Speed		3) ALL CONDUIT BY OTHE	RS
	A00084	Fam Reset	> 0	Fault Reset	Only reset in the case of a fault condition	41	
Fan 21	AI0081	Fan Status	2	Drive Running Forward			
	Aloosi	Tan Status	4	Reverse		-11	
				VFD outpt		11	
	AI0082	Motor speed	0-200	frequency/RPM	Max frequency can vary based on size of fan	41	
	AI0083 AI0084	Motor Current Fault Code	0-5	VFD Output Current See Table	Fault Codes listed in Fault code table	-11	
			0	Fire Alarm Activated	0 = False	-11	
	AI0137	Input Jumper/Fire Alarm Contact	1	No Fire Alarm	1 = True	-11	
	AI0138	Fan LOC	0	Good communication	0 = False	11	
	A10138	Fair LOC	1	No communication	1 = True		
			0	Stop		41	
	A00085	Fan Mode	1	Start	Option, have to have temp sensor option		
			2	Temp Run Mode Humidity Run Mode	Option, have to have temp sensor option Option, have to have humidity sensor option	-11	
			-1	Reverse		11	
	AO0086	Direction	1	Forward		11	
	A00087	Speed set	1-10	Speed		]	
	AO0088	Fam Reset	> 0	Fault Reset	Only reset in the case of a fault condition	41	
Fan 22			1	Drive Running		41	
rafi 22	A10085	Fan Status	2	Forward		-11	
			4	Reverse VFD outpt		-11	
	AI0086	Motor speed	0-200	frequency/RPM	Max frequency can vary based on size of fan	41	
	AI0087	Motor Current	0-5	VFD Output Current			
	AI0088	Fault Code	*	See Table	Fault Codes listed in Fault code table	41	
	AI0139	Input Jumper/Fire Alarm Contact	0	Fire Alarm Activated No Fire Alarm	0 = False 1 = True		
			0	Good communication	0 = False	-11	
	AI0140	Fan LOC	1	No communication	1 = True	11	
			0	Stop		]	
	A00089	Fan Mode	1	Start		]	
	1000005	Tan Wode	2	Temp Run Mode	Option, have to have temp sensor option	41	
			3	Humidity Run Mode	Option, have to have humidity sensor option	-11	
	AO0090	Direction	-1	Reverse Forward		-11	
	A00091	Speed set	1-10	Speed		-11	
	A00092	Fam Reset	> 0	Fault Reset	Only reset in the case of a fault condition	11	
			1	Drive Running		]	
Fan 23	A10089	Fan Status	2	Forward		41	
			4	Reverse VFD outpt		-11	
	AI0090	Motor speed	0-200	frequency/RPM	Max frequency can vary based on size of fan		
	AI0091	Motor Current	0-5	VFD Output Current		]	
	AI0092	Fault Code	*	See Table	Fault Codes listed in Fault code table	41	
	AI0141	Input Jumper/Fire Alarm Contact	0	Fire Alarm Activated	0 = False	41	
			1 0	No Fire Alarm Good communication	1 = True 0 = False	-11	
	AI0142	Fan LOC	1	No communication	1 = True	11	
			0	Stop		]	
	A00093	Fan Mode	1	Start		41	
		/ dif WoodC	2	Temp Run Mode	Option, have to have temp sensor option	41	
			3	Humidity Run Mode	Option, have to have humidity sensor option	-1	
	AO0094	Direction	-1	Reverse Forward		-1	
	A00095	Speed set	1-10	Speed		11	
	A00096	Fam Reset	>0	Fault Reset	Only reset in the case of a fault condition	11	
			1	Drive Running			
_	AI0093	Fan Status	2	Forward		REVIEW	DRAWING
Fan 24		1	4	Reverse VFD outpt		THIS DRAWING IS N CONSTR	NOT INTENDED FOR
Fan 24					Max frequency can vary based on size of fan	PLEASE CONSULT WITH	REGISTERED ARCHITECT
Fan 24	AI0094	Motor speed	0-200	frequency/RPM			
Fan 24	AI0094 AI0095	Motor speed Motor Current	0-200 0-5	frequency/RPM VFD Output Current		ENGINEER FOR AL	FESIONAL L LOADS ANALYSIS
Fan 24			0-5 *	VFD Output Current See Table	Fault Codes listed in Fault code table	ENGINEER FOR AL	
Fan 24	A10095	Motor Current	0-5 * 0	VFD Output Current See Table Fire Alarm Activated	Fault Codes listed in Fault code table 0 = False	ENGINEER FOR AL	L LOADS ANALYSIS DNS CONFORMITY.
Fan 24	Al0095 Al0096	Motor Current Fault Code	0-5 * 0 1	VFD Output Current See Table Fire Alarm Activated No Fire Alarm	Fault Codes listed in Fault code table 0 = False 1 = True	ENGINEER FOR AL AND SPECIFICATIO	L LOADS ANALYSIS DNS CONFORMITY.
Fan 24	Al0095 Al0096	Motor Current Fault Code	0-5 * 0 1 0	VFD Output Current See Table Fire Alarm Activated No Fire Alarm Good communication	Fault Codes listed in Fault code table 0 = False 1 = True 0 = False	ENGINEER FOR AL AND SPECIFICATIO	L LOADS ANALYSIS DNS CONFORMITY.
Fan 24	Al0095 Al0096 Al0143	Motor Current Fault Code Input Jumper/Fire Alarm Contact	0-5 * 0 1	VFD Output Current See Table Fire Alarm Activated No Fire Alarm	Fault Codes listed in Fault code table 0 = False 1 = True	ENGINEER FOR AL AND SPECIFICATIO Firm Name and Addre	LLOADS ANALYSIS DNS CONFORMITY. ss ERED SOLUTIONS rive, Suite 140
Fan 24	Al0095 Al0096 Al0143	Motor Current Fault Code Input Jumper/Fire Alarm Contact	0-5 * 0 1 0	VFD Output Current See Table Fire Alarm Activated No Fire Alarm Good communication	Fault Codes listed in Fault code table 0 = False 1 = True 0 = False	ENGINEER FOR AL AND SPECIFICATIO Firm Name and Addre 4FRONT ENGINE 1612 Hutton D	LLOADS ANALYSIS DNS CONFORMITY. ss ERED SOLUTIONS rive, Suite 140 TX 75006 Regional Sale Manager:
	Al0095 Al0096 Al0143	Motor Current Fault Code Input Jumper/Fire Alarm Contact	0-5 * 0 1 0	VFD Output Current See Table Fire Alarm Activated No Fire Alarm Good communication	Fault Codes listed in Fault code table 0 = False 1 = True 0 = False	ENGINEER FOR AL AND SPECIFICATIO Firm Name and Addre 4FRONT ENGINEI 1612 Hutton D Carrollton, Drawn By: CRE	LLOADS ANALYSIS DNS CONFORMITY. ss ERED SOLUTIONS rive, Suite 140 TX 75006 Regional Sale Manager: TBD
	Al0095 Al0096 Al0143	Motor Current Fault Code Input Jumper/Fire Alarm Contact	0-5 * 0 1 0	VFD Output Current See Table Fire Alarm Activated No Fire Alarm Good communication	Fault Codes listed in Fault code table 0 = False 1 = True 0 = False	ENGINEER FOR AL AND SPECIFICATIO Firm Name and Addre 4FRONT ENGINEI 1612 Hutton D Carrollton, Drawn By: CRE Date:	LLOADS ANALYSIS DNS CONFORMITY. ss ERED SOLUTIONS rive, Suite 140 TX 75006 Regional Sale Manager: TBD Drawing Number:
	Al0095 Al0096 Al0143	Motor Current Fault Code Input Jumper/Fire Alarm Contact	0-5 * 0 1 0	VFD Output Current See Table Fire Alarm Activated No Fire Alarm Good communication	Fault Codes listed in Fault code table 0 = False 1 = True 0 = False	ENGINEER FOR AL AND SPECIFICATIO Firm Name and Addre 4FRONT ENGINEI 1612 Hutton D Carrollton, Drawn By: CRE	LLOADS ANALYSIS DNS CONFORMITY. ss ERED SOLUTIONS rive, Suite 140 TX 75006 Regional Sale Manager: TBD Drawing Number: 6021616S
	A10095 A10096 A10143 A10144	Motor Current Fault Code Input Jumper/Fire Alarm Contact	0-5 * 0 1 0	VFD Output Current See Table Fire Alarm Activated No Fire Alarm Good communication	Fault Codes listed in Fault code table 0 = False 1 = True 0 = False	ENGINEER FOR AL AND SPECIFICATIO Firm Name and Addre 4FRONT ENGINEI 1612 Hutton D Carroliton, Drawn By: CRE Date: 08/03/2022 Scale:	LLOADS ANALYSIS DNS CONFORMITY. ss ERED SOLUTIONS rive, Suite 140 TX 75006 Regional Sale Manager: TBD Drawing Number: 6021616S Sheet Number: Rev.
	A10095 A10096 A10143 A10144	Motor Current Fault Code Input Jumper/Fire Alarm Contact	0-5 * 0 1 0	VFD Output Current See Table Fire Alarm Activated No Fire Alarm Good communication	Fault Codes listed in Fault code table 0 = False 1 = True 0 = False	ENGINEER FOR AL AND SPECIFICATIO Firm Name and Addre 4FRONT ENGINEI 1612 Hutton D Carrollton, Drawn By: CRE Date: 08/03/2022	LLOADS ANALYSIS DNS CONFORMITY. ss ERED SOLUTIONS rive, Suite 140 TX 75006 Regional Sale Manager: TBD Drawing Number: 6021616S

General Notes

Revision	Date	Drawn By	Description	Revision	Date	Reference	Description
А	01/22/2019	CRE	INITIAL DRAWING	Е	01/26/2022	LRF	CORRECTED IFAN WIRING FOR COMMERCIAL FANS
в	06/06/2019	CRE	ADDED BACNET CONNECTION	F	08/03/2022	GC	NEW HUMIDITY AND TEMPERATURE SENSOR
С	04/06/2020	CRE	Updated BACNET address tables	G	10/21/2022	GC	CORRECTED HUM AND TEMP SENSOR WIRING FOR COMMERCIAL FANS
D	05/20/2021	CRE	UPDATED TO NEW IFan DISPLAY, EXPANDED BACNET TABLE	н	11/03/2023	GC	ADD SLAVE

Fan	BACnet Address	Register Description	Expected Data	Result/Status	Notes	
			0	Stop		
	400000		1	Start		
	AO0097	Fan Mode	2	Temp Run Mode	Option, have to have temp sensor option	
			3	Humidity Run Mode	Option, have to have humidity sensor option	
			-1	Reverse		
	AO0098	Direction	1	Forward		
	AO0099	Speed set	1-10	Speed		
	A00100	Fam Reset	> 0	Fault Reset	Only reset in the case of a fault condition	
			1	Drive Running	. ,	
Fan 25	AI0145	Fan Status	2	Forward		
			4	Reverse		
			-	VFD outpt		
	AI0146	Motor speed	0-200	frequency/RPM	Max frequency can vary based on size of fan	
	AI0147	Motor Current	0-5	VFD Output Current		
	AI0148	Fault Code	*	See Table	Fault Codes listed in Fault code table	
			0	Fire Alarm Activated	0 = False	
	AI0149	Input Jumper/Fire Alarm Contact	1	No Fire Alarm	1 = True	
			0	Good communication	0 = False	
	AI0150	Fan LOC	1	No communication	1 = True	
			0	Stop	1-1100	
	A00101	Fan Mode	1	Start Temp Run Mode	Option, have to have temp sensor option	
			2			
			3	Humidity Run Mode	Option, have to have humidity sensor option	
	AO0102	Direction	-1	Reverse		
			1	Forward		
	A00103	Speed set	1-10	Speed		
	A00104	Fam Reset	> 0	Fault Reset	Only reset in the case of a fault condition	
<b>.</b>			1	Drive Running		
Fan 26	AI0151	Fan Status	2	Forward		
			4	Reverse		
				VFD outpt		
	AI0152	Motor speed	0-200	frequency/RPM	Max frequency can vary based on size of fan	
	AI0153	Motor Current	0-5	VFD Output Current	l	
	AI0154	Fault Code	*	See Table	Fault Codes listed in Fault code table	
	AI0155	Input Jumper/Fire Alarm Contact	0	Fire Alarm Activated	0 = False	
	AIU100	por sumperyr ne Alarm Contact	1	No Fire Alarm	L = True	
	410456	5	0	Good communication	0 = False	
	AI0156	Fan LOC	1	No communication	1 = True	
			0	Stop		
		For Made	1	Start		
	A00105	Fan Mode	2	Temp Run Mode	Option, have to have temp sensor option	
			3	Humidity Run Mode	Option, have to have humidity sensor option	
			-1	Reverse		
	AO0106	Direction	1	Forward		
	A00107	Speed set	1-10	Speed		
	A00107	Fam Reset			Only reset in the case of a fault condition	
	100100	i uni Acset	>0	Fault Reset Drive Running	only reserve the case of a fault condition	
Fan 27	410157	Fan Statur	1		1	
27	AI0157	Fan Status	2	Forward		
			4	Reverse		
	AI0158	Motor speed	0-200	VFD outpt frequency/RPM	Max frequency can vary based on size of fan	
	AI0158 AI0159		0-200	VFD Output Current	internet currently based on size of fail	
		Motor Current	0-5		Foult Codes listed in Fault and stable	
	AI0160	Fault Code		See Table	Fault Codes listed in Fault code table	
	AI0161	Input Jumper/Fire Alarm Contact	0	Fire Alarm Activated	0 = False	
			1	No Fire Alarm	1 = True	
	AI0162	Fan LOC	0	Good communication	0 = False	
			1	No communication	1 = True	
			0	Stop		
	AO0109	Fan Mode	1	Start		
	700105	i an Mode	2	Temp Run Mode	Option, have to have temp sensor option	
			3	Humidity Run Mode	Option, have to have humidity sensor option	
	1000110	Direction	-1	Reverse		
	AO0110	Direction	1	Forward		
				Speed		
	A00111	Speed set	1-10			
	A00111 A00112			Fault Reset	Only reset in the case of a fault condition	
		Speed set Fam Reset	> 0	Fault Reset Drive Running	Only reset in the case of a fault condition	
Fan28	A00112	Fam Reset	> 0 1	Drive Running	Only reset in the case of a fault condition	
Fan28			> 0 1 2	Drive Running Forward	Only reset in the case of a fault condition	
Fan28	A00112	Fam Reset	> 0 1	Drive Running Forward Reverse	Only reset in the case of a fault condition	
Fan28	A00112 Al0163	Fam Reset Fan Status	>0 1 2 4	Drive Running Forward Reverse VFD outpt		
Fan28	A00112 Al0163 Al0164	Fam Reset Fan Status Motor speed	> 0 1 2 4 0-200	Drive Running Forward Reverse VFD outpt frequency/RPM	Only reset in the case of a fault condition Max frequency can vary based on size of fan	
Fan28	A00112 Al0163 Al0164 Al0165	Fam Reset Fan Status Motor speed Motor Current	> 0 1 2 4 0-200 0-5	Drive Running Forward Reverse VFD outpt frequency/RPM VFD Output Current	Max frequency can vary based on size of fan	
Fan28	A00112 Al0163 Al0164	Fam Reset Fan Status Motor speed	> 0 1 2 4 0-200 0-5 *	Drive Running Forward Reverse VFD outpt frequency/RPM VFD Output Current See Table	Max frequency can vary based on size of fan Fault Codes listed in Fault code table	
Fan28	A00112 Al0163 Al0164 Al0165	Fam Reset Fan Status Motor speed Motor Current	> 0 1 2 4 0-200 0-5 * 0	Drive Running Forward Reverse VFD outpt frequency/RPM VFD Output Current See Table Fire Alarm Activated	Max frequency can vary based on size of fan Fault Codes listed in Fault code table 0 = False	
Fan28	A00112 Al0163 Al0164 Al0165 Al0166	Fam Reset Fan Status Motor speed Motor Current Fault Code	> 0 1 2 4 0-200 0-5 * 0 1	Drive Running Forward Reverse VFD outpt frequency/RPM VFD Output Current See Table Fire Alarm Activated No Fire Alarm	Max frequency can vary based on size of fan Fault Codes listed in Fault code table 0 = False 1 = True	
Fan28	A00112 Al0163 Al0164 Al0165 Al0166	Fam Reset Fan Status Motor speed Motor Current Fault Code	> 0 1 2 4 0-200 0-5 * 0	Drive Running Forward Reverse VFD outpt frequency/RPM VFD Output Current See Table Fire Alarm Activated	Max frequency can vary based on size of fan Fault Codes listed in Fault code table 0 = False	

Fan	BACnet Address	Register Description	Expected Data	Result/Status	Notes
			0	Stop	
			1	Start	
	AO0113	Fan Mode	2	Temp Run Mode	Option, have to have temp sensor option
			3	Humidity Run Mode	Option, have to have humidity sensor option
			-1	Reverse	
	AO0114	Direction	1	Forward	
	AO0115	Speed set	1-10	Speed	
	AO0116	Fam Reset	> 0	Fault Reset	Only reset in the case of a fault condition
			1	Drive Running	
Fan 29	AI0169	Fan Status	2	Forward	
			4	Reverse	
	AI0170	Motor speed	0-200	VFD outpt frequency/RPM	Max frequency can vary based on size of fan
	AI0170	Motor Current	0-5	VFD Output Current	
	AI0172	Fault Code	*	See Table	Fault Codes listed in Fault code table
	AIU172		0	Fire Alarm Activated	0 = False
	AI0173	Input Jumper/Fire Alarm Contact	1	No Fire Alarm	1 = True
			0	Good communication	0 = False
	AI0174	Fan LOC	1	No communication	1 = True
			0	Stop	1 1100
			1	Start	
	A00117	Fan Mode	2	Temp Run Mode	Option, have to have temp sensor option
			3	Humidity Run Mode	Option, have to have humidity sensor option
			-1	Reverse	
	AO0118	Direction	1	Forward	
	AO0119	Speed set	1-10	Speed	
	AO0120	Fam Reset	> 0	Fault Reset	Only reset in the case of a fault condition
			1	Drive Running	
Fan 30	AI0175	Fan Status	2	Forward	
			4	Reverse	
	AI0176	Motor speed	0-200	VFD outpt frequency/RPM	Max frequency can vary based on size of fan
	AI0177	Motor Current	0-5	VFD Output Current	
	AI0178	Fault Code	*	See Table	Fault Codes listed in Fault code table
			0	Fire Alarm Activated	0 = False
	AI0179	Input Jumper/Fire Alarm Contact	1	No Fire Alarm	1 = True
			0	Good communication	0 = False
	AI0180	Fan LOC	1	No communication	1 = True

levision	Date	Drawn By	Description	Revision	Date	Reference	Description
A 01	1/22/2019	CRE	INITIAL DRAWING	E	01/26/2022	LRF	CORRECTED IFAN WIRING FOR COMMERCIAL FANS
в 06	6/06/2019	CRE	ADDED BACNET CONNECTION	F	08/03/2022	GC	NEW HUMIDITY AND TEMPERATURE SENSOR
C 04	4/06/2020	CRE	Updated BACNET address tables	G	10/21/2022	GC	CORRECTED HUM AND TEMP SENSOR WIRING FOR COMMERCIAL FANS
D 05	5/20/2021	CRE	UPDATED TO NEW IFan DISPLAY, EXPANDED BACNET TABLE	н	11/03/2023	GC	ADD SLAVE

	General	Notes
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	be used solely for the express and development of the article	purpose of consideration described herein and
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	Engineered Solutions reserves product improvements without	s the right to incorporate prior notice
	NOTES:	
	1) ELECTRICAL CONTRAC ENSURE THAT ALL ELECT	RICAL WORK
	MEETS LOCAL ELECTRIC	AL CODES.
	2) RECOMENDED COMMU CABLE BELDEN 8723	NICATION
	3) ALL CONDUIT BY OTHE	RS
	REVIEW I THIS DRAWING IS N	ORAWING
	PLEASE CONSULT WITH R	JCTION.
	OR PROFF ENGINEER FOR ALL	ESIONAL LOADS ANALYSIS
	AND SPECIFICATIO	NS CONFORMITY.
	Firm Name and Addres	s
	4FRONT ENGINEE	
	1612 Hutton Dr Carrollton, 1	ive, Suite 140 TX 75006
	Drawn By:	Regional Sale Manager:
	CRE	TBD
	Date: 08/03/2022	Drawing Number: 6021616S
	Scale:	Sheet Number: Rev:
	NTS	10 OF 11 H
OPTIONAL NETWORK FCP, TEMPERATURE SE	NSOR. AND AN	

Fan	BACnet Address	Register Description	Expected Data	Result/Status	Notes
	AO1001	Forward Start SP	> 0	Temperature SP to Start in Forward	Scaled by 10, so write 800 to get a value of 80
	4.01003	Deverage Chart CD	>0	Temperature SP to Start in	Scaled by 10, 50 write 800 to get a value of 80
	AO1002	Reverse Start SP	> 0	Reverse	Scaled by 10, so write 300 to get a value of 30
Temp1	AO1003	Forward increment SP	> 0	Temperature FWD Inc	Scaled by 10, so write 300 to get a value of 30
	AO1004	Reverse increment SP	> 0	Temperature REV Inc	Scaled by 10, so write 300 to get a value of 30
	AI1001	Scaled Temperature	##	Temperature FB	
	AI1011	Temperature/Humidity Sensor	0	Good communication	0 = False
		LOC	1	No communication	1 = True
	AO1005	Forward Start SP	> 0	Temperature SP to Start in Forward	Scaled by 10, so write 800 to get a value of 80
	AO1006	Reverse Start SP	> 0	Temperature SP to Start in Reverse	Scaled by 10, so write 300 to get a value of 30
Tomn?	AO1007	Forward increment SP	> 0	Temperature FWD Inc	Scaled by 10, so write 300 to get a value of 30
Temp2	AO1008	Reverse increment SP	> 0	Temperature REV Inc	Scaled by 10, so write 300 to get a value of 30
	AI1002	Scaled Temperature	##	Temperature FB	
		Temperature/Humidity Sensor	0	Good communication	0 = False
	AI1012	LOC	1	No communication	1 = True
	AO1009	Forward Start SP		Temperature SP to Start in	
		Tormard Start Si	> 0	Forward	Scaled by 10, so write 800 to get a value of 80
	AO1010	Reverse Start SP	> 0	Temperature SP to Start in Reverse	Scaled by 10, so write 300 to get a value of 30
Tom-2	AO1011	Forward increment SP	> 0	Temperature FWD Inc	Scaled by 10, so write 300 to get a value of 30
Temp3	AO1012	Reverse increment SP	> 0	Temperature REV Inc	Scaled by 10, so write 300 to get a value of 30
	AI1003	Scaled Temperature	##	Temperature FB	
		Temperature/Humidity Sensor	0	Good communication	0 = False
	AI1013	LOC	1	No communication	1 = True
	AO1013	Forward Start SP		Temperature SP to Start in	
			> 0	Forward Temperature SP to Start in	Scaled by 10, so write 800 to get a value of 80
	AO1014	Reverse Start SP	> 0	Reverse	Scaled by 10, so write 300 to get a value of 30
Temp4	AO1015	Forward increment SP	> 0	Temperature FWD Inc	Scaled by 10, so write 300 to get a value of 30
-	AO1016	Reverse increment SP	> 0	Temperature REV Inc	Scaled by 10, so write 300 to get a value of 30
	AI1004	Scaled Temperature	##	Temperature FB	
	AI1014	Temperature/Humidity Sensor	0	Good communication	0 = False
		LOC	1	No communication	1 = True
	AO1017	Forward Start SP	> 0	Humidity SP to Start in Forward	Scaled by 10, so write 800 to get a value of 80
	AO1018	Reverse Start SP	> 0	Humidity SP to Start in Reverse	Scaled by 10, so write 300 to get a value of 30
Humid1	AO1019	Forward increment SP	> 0	Humidity FWD Inc	Scaled by 10, so write 300 to get a value of 30
	AO1020	Reverse increment SP	> 0	Humidity REV Inc	Scaled by 10, so write 300 to get a value of 30
	AI1005			Humidity FB	
	A01021	Forward Start SP	> 0	Humidity SP to Start in Forward	Scaled by 10, so write 800 to get a value of 80
		AO1022 Reverse Start SP		Humidity SP to Start in Reverse	Scaled by 10, so write 300 to get a value of 30
Humid2	AO1023	Forward increment SP	> 0	Humidity FWD Inc	Scaled by 10, so write 300 to get a value of 30
	AO1024	Reverse increment SP	> 0	Humidity REV Inc	Scaled by 10, so write 300 to get a value of 30
	AI1006	Humidity	##	Humidity FB	
	AO1025	Forward Start SP	> 0	Humidity SP to Start in Forward	Scaled by 10, so write 800 to get a value of 80
	AO1026	Reverse Start SP	> 0	Humidity SP to Start in Reverse	Scaled by 10, so write 300 to get a value of 30
Humid3	A01027	Forward increment SP	> 0	Humidity FWD Inc	Scaled by 10, so write 300 to get a value of 30
	AO1028	Reverse increment SP	> 0	Humidity REV Inc	Scaled by 10, so write 300 to get a value of 30
	AI1007	Humidity	##	Humidity FB	
	AO1029	Forward Start SP	> 0	Humidity SP to Start in Forward	Scaled by 10, so write 800 to get a value of 80
	AO1030	Reverse Start SP	> 0	Humidity SP to Start in Reverse	Scaled by 10, so write 300 to get a value of 30
Humid4	A01031	Forward increment SP	> 0	Humidity FWD Inc	Scaled by 10, so write 300 to get a value of 30
	AO1032	Reverse increment SP	> 0	Humidity REV Inc	Scaled by 10, so write 300 to get a value of 30
	AI1008	Humidity	##	Humidity FB	
	AO1033	Wind Set Point	5-15	Set Point to shut off fans	5-15 MPH
	AO1034	Time	1-20	Seconds before shut off	Time above set point before shutoff
	AO1035	Restart Time	>60	Seconds before restart	Time below set point before restart
Wind	AI1009	Scaled Wind Speed	##	Wind Speed	Displayed in the selected units
	AI1010	Direction	##	Wind Direction	
	AI1015	Wind Sensor LOC	0	Good communication	0 = False
			1	No communication	1 = True
	AI1016	Fire Alarm Contact	0	Fire Alarm Activated	0 = False
			1	No Fire Alarm	1 = True
ire Control Panel			0	Good communication	0 = False

DATA	DECIMAL VALUE	PANEL INDICATION	DESCRIPTION
H10	16	E.OC1	OVERCURRENT TRIP DURING ACCELERATION
H11	17	E.OC2	OVERCURRENT TRIP DURING CONSTANT SP
H12	18	E.OC3	OVERCURRENT TRIP DURING DECELERATION O
H20	32	E.OV1	REGENERATIVE OVERVOLTAGE TRIP DURING ACCE
H21	33	E.OV2	REGENERATIVE OVERVOLTAGE TRIP DURING CONST
H22	34	E.OV3	REGENERATIVE OVERVOLTAGE TRIP DURING DECELER
H30	48	E.THT	INVERTER OVERLOAD TRIP (ELECTRONIC THERMAL REI
H31	49	E.THM	MOTOR OVERLOAD TRIP (ELECTRONIC THERMAL RELA
H40	64	E.FIN	FIN OVERHEAT
H52	82	E.ILF	INPUT PHASE LOSS
H60	96	E.OLT	STALL PREVENTION

DATA	DESCRIPTION				
0	NO ALARM/FAN OK				
1	SHORT CIRCUIT				
2	CURRENT LIMIT				
3	CURRENT LIMIT TRIP				
4	UNDER VOLTAGE TRIP				
6	OVER VOLTAGE TRIP				
8	STOP MODE				
9	FLASH ERROR WATCHDOG ERROR				
13					
22	COMMUNICATION WATCHDOG ERROR				

R	vision Date	Drawn By	Description	Revision	Date	Reference	Description
	A 01/22/201	9 CRE	INITIAL DRAWING	Е	01/26/2022	LRF	CORRECTED IFAN WIRING FOR COMMERCIAL FANS
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	C 04/06/202	0 CRE	Updated BACNET address tables	G	10/21/2022	GC	CORRECTED HUM AND TEMP SENSOR WIRING FOR COMMERCIAL FANS
	D 05/20/202	1 CRE	UPDATED TO NEW IFan DISPLAY, EXPANDED BACNET TABLE	н	11/03/2023	GC	ADD SLAVE

SPEED OR STOP CELERATION ISTANT SPEED REATION OR STOP RELAY FUNCTION)	ition J
1) ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL ELECTRICAL WORK MEETS LOCAL ELECTRICAL CODES. 2) RECOMENDED COMMUNICATION CABLE BELDEN 8723	
TION SPEED OR STOP CELERATION STANT SPEED REATION OR STOP RELAY FUNCTION)	
3) ALL CONDUIT BY OTHERS TION SPEED OR STOP CELERATION STANT SPEED :RATION OR STOP :ELAY FUNCTION)	
SPEED OR STOP CELERATION STANT SPEED RATION OR STOP ELAY FUNCTION)	
REVIEW DRAWING THIS DRAWING IS NOT INTENDED FOI CONSTRUCTION. PLEASE CONSULT WITH REGISTERED ARCI OR PROFFESIONAL ENGINEER FOR ALL LOADS ANALYSI AND SPECIFICATIONS CONFORMITY Firm Name and Address	HITECT S
4FRONT ENGINEERED SOLUTI 1612 Hutton Drive, Suite 140 Carrollton, TX 75006	ONS
Drawn By: Regional Sale Manage CRE TBD	er:
Date: 08/03/2022 Date: 08/03/2022 6021616	s
Scale: Sheet Number: R NTS 11 OF 11	Rev:
	H