

P/N 6027001S - iFan WITH OP

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	02/20/2025 Scale:	6027001S Sheet Number: Rev:
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TIONAL NETWORK FCP, TEMPERATURE SENSOR, AND ANEMOMETER









Revision	Date	Drawn By	Description	Revision	Date	Reference	Description
А	02/20/2025	CI	INITIAL RELEASE				





Industrial, Direct Drive & 3-Blade Fan Field Wiring

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	1612 HUTTON DR C. 972.466.0707 800.525.3	ARROLLTON TX 75006 2010 FAX 972.323.2663 Regional Sale Manager
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	Date:	Drawing Number: 6027001S
	Scale:	Sheet Number: Rev:
P/N 6027001S - iFan WITH OPTIONAL NETWORK FCP, TEMPERATURE S	NTS ENSOR, AND AI	4 OF 12 A NEMOMETER



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Drawn By: CCI	Regional Sale Manager: TBD
Date: 02/20/2025	Drawing Number: 6027001S
Scale: NTS	5 OF 12 A

P/N 6027001S - iFan WITH OPTIONAL NETWORK FCP, TEMPERATURE SENSOR, AND ANEMOMETER

### Industrial, Direct Drive & 3-Blade Fan Optional Hardware Field Wiring



### 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

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### BACnet Mapping

Fan	BACnet Address	<b>Register Description</b>	Expecte	ed Data	Result/Status	Notes
			(	)	Stop	
	AO0001	Fan Mode		1	Start	
				2	Temp Run Mode	Option, have to have temp sensor option
			3	3	Humidity Run Mode	Option, have to have humidity sensor option
	AO0002	Direction	-	1	Reverse	
					Forward	
	A00003	Speed set	1-	10	Speed	Outer search in the same of a fault same dision
	A00004	Kan Keset	>	0 1	Fault Reset	Only reset in the case of a fault condition
			BIT-0	1	Drive Kunning	
			BIT-1	1	Forward	
F 4			BIT-2	1	Reverse	
Fan 1	AI0001	Fan Status	BII-3	1	SU (Up-to-Frequency)	
			BIT - 4	1	OL (Overload)	
			BIT - 6	1	FU (Frequency Detection)	
			BIT - 7	1	ABC (Fault)	
			BIT - 15	1	Fault Occurrence	
	A10002	Motor speed	0-2	200	VFD output freq/RPM	Max Hz or RPM can vary based on size/type of fa
	AI0003	Motor Current	0	-5	VFD Output Current	
	A10004	Fault Code	,	к	See Manual	Fault Codes listed in Fault code table
	AI0097	Input Jumper/Fire Alarm	(	)	Fire Alarm Activated	0 = False
		Contact		1	No Fire Alarm	1 = True
	AI0098	Fan LOC	(	)	Good communication	0 = False
				L	No communication	1 = True
			(	)	Stop	
	A00005	Fan Mode	:	L	Start	
				2	Temp Run Mode	Option, have to have temp sensor option
				3	Humidity Run Mode	Option, have to have humidity sensor option
	A00006	Direction	-	1	Reverse	
		Sheedon	:	L	Forward	
	AO0007	Speed set	1-	10	Speed	
	AO0008	Ran Reset	>	0	Fault Reset	Only reset in the case of a fault condition
			BIT - 0	1	Drive Running	
			BIT - 1	1	Forward	
			BIT - 2	1	Reverse	
Fan 2	410005	Foo Status	BIT - 3	1	SU (Up-to-Frequency)	
	A10005	Tan Status	BIT - 4	1	OL (Overload)	
			BIT - 6	1	FU (Frequency Detection)	
			BIT - 7	1	ABC (Fault)	
			BIT - 15	1	Fault Occurrence	
	AI0006	Motor speed	0-2	200	VFD output freq/RPM	Max Hz or RPM can vary based on size/type of fa
	AI0007	Motor Current	0	-5	VFD Output Current	
	AI0008	Fault Code	•	ĸ	See Manual	Fault Codes listed in Fault code table
	410000	Input Jumper/Fire Alarm	(	)	Fire Alarm Activated	0 = False
	A10099	Contact	:	L	No Fire Alarm	1 = True
	4100100	Fee LOC	(	)	Good communication	0 = False
	A100100	Fail LOC		L	No communication	1 = True
			(	)	Stop	
				L	Start	
	A00009	Fan Wode		2	Temp Run Mode	Option, have to have temp sensor option
				3	Humidity Run Mode	Option, have to have humidity sensor option
	400010	Discution	-	1	Reverse	
	A00010	Direction		L	Forward	
		Encodicat	1-10		Speed	
	AO0011	speed set	1-		opeed	
	A00011 A00012	Ran Reset	1->	0	Fault Reset	Only reset in the case of a fault condition
	A00011 A00012	Ran Reset	1- > BIT - 0	0	Fault Reset Drive Running	Only reset in the case of a fault condition
	A00011 A00012	Ran Reset	1- > BIT - 0 BIT - 1	0 1 1	Fault Reset Drive Running Forward	Unly reset in the case of a fault condition
	A00011 A00012	Ran Reset	1- > BIT - 0 BIT - 1 BIT - 2	0 1 1 1 1	Fault Reset Drive Running Forward Reverse	Unly reset in the case of a fault condition
Fan 3	A00011 A00012	Ran Reset	1- BIT - 0 BIT - 1 BIT - 2 BIT - 3	0 1 1 1 1 1	Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency)	Only reset in the case of a fault condition
Fan 3	A00011 A00012 A10009	Ran Reset	1- BIT - 0 BIT - 1 BIT - 2 BIT - 3 BIT - 4	0 1 1 1 1 1	Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload)	Univ reset in the case of a fault condition
Fan 3	A00011 A00012 A10009	Ran Reset	1- BIT - 0 BIT - 1 BIT - 2 BIT - 3 BIT - 4 BIT - 6	0 1 1 1 1 1 1 1	Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection)	Univ reset in the case of a fault condition
Fan 3	A00011 A00012 A10009	Ran Reset	1- BIT - 0 BIT - 1 BIT - 2 BIT - 3 BIT - 4 BIT - 6 BIT - 7	0 1 1 1 1 1 1 1 1 1	Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Fault)	Only reset in the case of a fault condition
Fan 3	A00011 A00012 A10009	Ran Reset	1- BIT - 0 BIT - 1 BIT - 2 BIT - 3 BIT - 4 BIT - 6 BIT - 7 BIT - 15	0 1 1 1 1 1 1 1 1 1 1 1	Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Fault) Fault Occurrence	Only reset in the case of a fault condition
Fan 3	A00011 A00012 A10009	Aan Reset Fan Status Motor speed	1- BIT - 0 BIT - 1 BIT - 2 BIT - 2 BIT - 3 BIT - 4 BIT - 6 BIT - 7 BIT - 15 0-2	0 1 1 1 1 1 1 1 1 1 1 1 200	Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Fault) Fault Occurrence VFD output frea/RPM	Only reset in the case of a fault condition
Fan 3	A00011 A00012 A10009 A10010 A10011	Aan Reset Fan Status Motor speed Motor Current	1- BIT - 0 BIT - 1 BIT - 2 BIT - 2 BIT - 3 BIT - 4 BIT - 6 BIT - 7 BIT - 15 0-2 0.2	0 1 1 1 1 1 1 200 -5	Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output Current	Only reset in the case of a fault condition Max Hz or RPM can vary based on size/type of fa
Fan 3	A00011 A00012 A10009 A10010 A10011 A10012	Fan Status           Motor speed           Motor Current           Fault Code	1- BIT - 0 BIT - 1 BIT - 2 BIT - 3 BIT - 4 BIT - 6 BIT - 7 BIT - 7 BIT - 15 0-2 0	0 1 1 1 1 1 1 200 -5	Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overfoad) FU (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output Current See Manual	Only reset in the case of a fault condition Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table
Fan 3	A00011 A00012 A10009 A10010 A10011 A10012	An Reset Fan Status Motor speed Motor Current Fault Code Input Jumger/Fire Alarm	1- BIT - 0 BIT - 1 BIT - 2 BIT - 2 BIT - 3 BIT - 4 BIT - 6 BIT - 7 BIT - 15 0-2 0 0	0 1 1 1 1 1 1 1 200 5 *	Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output freq/RPM VFD Output Current See Manual Fire Alarm Activated	Only reset in the case of a fault condition Max Hz or RPM can vary based on size/type of f Fault Codes listed in Fault code table 0 = False
Fan 3	A00011 A00012 A10009 A10010 A10011 A10012 A10101	An Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact	1- BIT - 0 BIT - 1 BIT - 2 BIT - 2 BIT - 2 BIT - 4 BIT - 6 BIT - 7 BIT - 15 0-2 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 1 1 1 1 1 200 25 * 200	Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output Current See Manual Fire Alarm Activated No Fire Alarm	Only reset in the case or a fault condition Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = False 1 = True
Fan 3	A00011 A00012 A10009 A10010 A10011 A10012 A10101	An Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact	1- > BIT - 0 BIT - 1 BIT - 2 BIT - 3 BIT - 4 BIT - 6 BIT - 7 BIT - 7 BIT - 7 D - 2 0 - 2 0 0 - 2 0 0 - 2	0 1 1 1 1 1 1 1 1 1 200 -5 * 0 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5	Forward Forward Reverse SU (Up-to-Frequency) OL (Overload) FO (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output furrent See Manual Fire Alarm Activated No Fire Alarm	Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = False 1 = True 0 = False
Fan 3	A00011 A00012 A10009 A10010 A10011 A10012 A10101 A10101	An Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC	1- BIT - 0 BIT - 1 BIT - 2 BIT - 15 0 -2 0 -2 0 0 -2 0 0	0 1 1 1 1 1 1 1 1 1 200 * * 0 1 1 1 1 1 1 1 1 1 1 1 1 1	Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Fault) Fault Occurrence VFD Output freq/RPM VFD Output freq/RPM VFD Output Current See Manual Fire Alarm Activated No Fire Alarm Good communication	Only reset in the case of a fault condition Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = False 1 = True 0 = False 1 = True
Fan 3	A00011 A00012 A10009 A10010 A10011 A10012 A10101 A10102	An Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC	1- > BIT - 0 BIT - 1 BIT - 2 BIT - 3 BIT - 4 BIT - 6 BIT - 7 BIT - 15 0-2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output furger Manual Fire Alarm Activated No Fire Alarm Good communication No communication	Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = False 1 = True 0 = False 1 = True
Fan 3	A00011 A00012 A10009 A10010 A10011 A10012 A10101 A10102	An Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC	1- > BIT - 0 BIT - 1 BIT - 2 BIT - 3 BIT - 4 BIT - 6 BIT - 7 BIT - 15 0-2 0	0 1 1 1 1 1 1 1 1 1 1 1 0 00 -5 * * 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Forward Forward Reverse SU (Up-to-Frequency) OL (Overload) PU (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output freq/RPM VFD Output freq/RPM See Manual Fire Alarm Good communication No communication Stop	Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = False 1 = True 0 = False 1 = True
Fan 3	A00011 A00012 A10009 A10010 A10011 A10012 A10101 A10102 A00013	An Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode	1- > BIT - 0 BIT - 1 BIT - 2 BIT - 3 BIT - 4 BIT - 6 BIT - 7 BIT - 15 0-2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0	For the set Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) FO (Frequency Detection) ABC (Fault) Fault Occurrence VFD Output freq/RPM VFD Output freq/RPM VFD Output Current See Manual Fire Alarm Good communication No communication Stop Start Temp Run Mode	Only reset in the case of a fault condition Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = False 1 = True 0 = False 1 = True Ontion, have to have terms sensor ontion
Fan 3	A00011 A00012 A10009 A10009 A10010 A10011 A10012 A10101 A10102 A00013	An Reset Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode	1- > BIT - 0 BIT - 1 BIT - 2 BIT - 3 BIT - 4 BIT - 6 BIT - 7 BIT - 15 0 - 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 1 1 1 1 1 1 1 1 1 1 1	Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Fault) Fault Occurrence VFD Output freq/RPM VFD Output freq/RPM VFD Output freq/RPM VFD Output Current See Manual Fire Alarm Activated No Fire Alarm Good communication No communication Stop Start Temp Run Mode Humidity Run Mode	Only reset in the case or a fault condition Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = False 1 = True 0 = False 1 = True Option, have to have temp sensor option Option, have to have them pensor option
Fan 3	A00011 A00012 A10009 A10009 A10010 A10011 A10012 A10101 A10102 A00013	An Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode	1- > BIT -0 BIT -1 BIT -2 BIT -3 BIT -4 BIT -6 BIT -7 BIT -6 C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 1 1 1 1 1 1 1 1 1 0 0 -5 -5 -8 0 1 0 0 -5 -5 -8 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7	Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output Current See Manual Fire Alarm Activated No Fire Alarm Good communication No communication Stop Start Temp Run Mode Humidity Run Mode Reverse	Max Hz or RPM can vary based on size/type of fa Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = False 1 = True 0 = False 1 = True Option, have to have temp sensor option Option, have to have humidity sensor option
Fan 3	A00011 A00012 A10009 A10009 A10010 A10011 A10012 A10101 A10102 A00013 A00014	An Reset Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode Direction	1- > BIT - 0 BIT - 1 BIT - 2 BIT - 3 BIT - 4 BIT - 6 BIT - 7 BIT - 7 BIT - 7 BIT - 7 C C C C C C C C C C C C C C C C C C C	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Forward Forward Reverse SU (Up-to-Frequency) OL (Overload) PU (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output freq/RPM VFD Output freq/RPM VFD Output Current See Manual Fire Alarm Good communication No communication No communication Stop Start Temp Run Mode Humidity Run Mode Reverse Forward	Only reset in the case of a fault condition Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = False 1 = True 0 = False 1 = True Option, have to have temp sensor option Option, have to have humidity sensor option
Fan 3	A00011 A00012 A10009 A10009 A10010 A10011 A10012 A10101 A10102 A00013 A00014 A00015	An Reset Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode Direction Speed set	1- > BIT - 0 BIT - 1 BIT - 2 BIT - 3 BIT - 4 BIT - 6 BIT - 7 BIT - 15 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 00 -5	For the set Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) PU (Frequency Detection) ABC (Fault) Fault Occurrence VFD Output freq/RPM VFD Output freq/RPM VFD Output freq/RPM VFD Output freq/RPM VFD Output Current See Manual Fire Alarm Activated No Fire Alarm Good communication No communication No communication Stop Start Temp Run Mode Humidity Run Mode Reverse Forward Speed	Only reset in the case or a fault condition Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = False 1 = True 0 = False 1 = True Option, have to have temp sensor option Option, have to have humidity sensor option
Fan 3	A00011 A00012 A10009 A10009 A10010 A10011 A10012 A10101 A10102 A00013 A00014 A00015 A00016	An Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode Direction Speed set Ran Reset Ran Reset	1- > BIT - 0 BIT - 1 BIT - 2 BIT - 2 BIT - 3 BIT - 4 BIT - 6 BIT - 7 BIT - 15 0-2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Fault Reset Fault Reset Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output Current See Manual Fire Alarm Activated No Fire Alarm Good communication No communication No communication Stop Start Temp Run Mode Humidity Run Mode Reverse Forward Speed Fault Reset	Only reset in the case of a fault condition Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = false 1 = True 0 = false 1 = True Option, have to have temp sensor option Option, have to have humidity sensor option Option, have to have humidity sensor option Option, have to have humidity sensor option
Fan 3	A00011 A00012 A10009 A10009 A10010 A10011 A10012 A10101 A10102 A00013 A00014 A00015 A00016	An Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode Direction Speed set Ran Reset	1- > BIT - 0 BIT - 1 BIT - 2 BIT - 3 BIT - 4 BIT - 7 BIT - 7 BIT - 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 1 1 1 1 1 1 1 1 1 1 200 -5	Forward Forward Reverse Forward Reverse SU (Up-to-Frequency) OL (Overload) Ful (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output freq/RPM VFD Output freq/RPM VFD Output freq/RPM VFD Output Current See Manual Fire Alarm Good communication No communication No communication Stap Start Temp Run Mode Humidity Run Mode Reverse Forward Speed Fault Reset Drive Running	Only reset in the case of a fault condition Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = False 1 = True 0 = False 1 = True Option, have to have temp sensor option Option, have to have humidity sensor option Option the case of a fault condition
Fan 3	A00011 A00012 A10009 A10009 A10010 A10011 A10012 A10101 A10102 A00013 A00013 A00014 A00015 A00016	An Reset Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode Direction Speed set Ran Reset	1- > BIT - 0 BIT - 1 BIT - 2 BIT - 3 BIT - 4 BIT - 6 BIT - 15 0 - 2 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Forward Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Fault) Fault Occurrence VFD Output freq/RPM VFD Output freq/RPM VFD Output Current See Manual Fire Alarm Good communication No communication No communication No communication Stop Start Temp Run Mode Humidity Run Mode Reverse Forward Speed Fault Reset Drive Running Forward	Only reset in the case of a fault condition Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = False 1 = True 0 = False 1 = True Option, have to have temp sensor option Option, have to have humidity sensor option Only reset in the case of a fault condition
Fan 3	A00011 A00012 A10009 A10009 A10010 A10011 A10012 A10101 A10102 A00013 A00014 A00015 A00016	An Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode Direction Speed set Ran Reset	1- > BIT - 0 BIT - 1 BIT - 2 BIT - 2 BIT - 2 BIT - 2 BIT - 4 BIT - 6 BIT - 7 BIT - 15 0-2 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0-	0 1 1 1 1 1 1 1 1 1 1 200 -5 - - - - - - - - - - - - -	Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output Current See Manual Fire Alarm Activated No Fire Alarm Good communication No communication Stop Start Temp Run Mode Humidity Run Mode Reverse Forward Speed Foult Reset Drive Running Forward Reverse	Only reset in the case of a fault condition Max Hz or RPM can vary based on size/type of f: Fault Codes listed in Fault code table 0 = False 1 = True 0 = False 1 = True Option, have to have temp sensor option Option, have to have humidity sensor option Option the case of a fault condition
Fan 3	A00011 A00012 A10009 A10009 A10010 A10011 A10012 A10101 A10102 A00013 A00014 A00015 A00016	An Reset Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode Direction Speed set Ran Reset	1- > BIT - 0 BIT - 1 BIT - 2 BIT - 3 BIT - 4 BIT - 7 BIT - 7 BIT - 7 BIT - 7 O O O O O O O O O O O O O O O O O O O	0 1 1 1 1 1 1 1 1 1 1 1 1 200 -5	Forward Forward Reverse SU (Up-to-Frequency) OL (Overload) Ful (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output f	Only reset in the case of a fault condition Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = False 1 = True 0 = False 1 = True Option, have to have temp sensor option Option, have to have humidity sensor option Option, have to have humidity sensor option Option, have to have humidity sensor option
Fan 3	A00011 A00012 A10009 A10009 A10010 A10011 A10012 A10101 A10102 A00013 A00014 A00015 A00016	An Reset Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode Direction Speed set Ran Reset Fan Status	1- > BIT - 0 BIT - 2 BIT - 2 BIT - 3 BIT - 4 BIT - 6 BIT - 7 BIT - 15 0-2 0- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 1 1 1 1 1 1 1 1 1 1 1	Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output Current See Manual Fire Alarm Activated No Fire Alarm See Manual Fire Alarm Activated No Good communication Stop Start Temp Run Mode Humidity Run Mode Reverse Forward Speed Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Dverload)	Only reset in the case of a fault condition Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = False 1 = True 0 = False 1 = True Option, have to have temp sensor option Option, have to have humidity sensor option Only reset in the case of a fault condition
Fan 3	A00011 A00012 A10009 A10009 A10010 A10011 A10012 A10101 A10102 A00013 A00014 A00015 A00016	An Reset Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode Direction Speed set Ran Reset Fan Status	1- > BIT - 0 BIT - 1 BIT - 2 BIT - 3 BIT - 4 BIT - 7 BIT - 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 1 1 1 1 1 1 1 1 2 200 5 5 8 8 7 1 1 1 1 1 1 1 1 1 1 1 1 1	Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) PU (Frequency Detection) ABC (Fault) Fault Occurrence VFD Output Freq/RPM VFD Output Freq/RPM VFD Output Freq/RPM VFD Output Current See Manual Fire Alarm Good communication No communication Stop Start Temp Run Mode Reverse Forward Speed Fault Reset Drive Running Forward Reverse Sol (Up-to-Frequency) OL (Overload)	Max Hz or RPM can vary based on size/type of fr Fault Codes listed in Fault code table 0 = false 1 = True 0 = false 1 = True Option, have to have temp sensor option Option, have to have humidity sensor option Option the case of a fault condition
Fan 3	A00011 A00012 A10009 A10009 A10010 A10011 A10012 A10101 A10102 A00013 A00014 A00015 A00016	An Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode Direction Speed set Ran Reset Fan Status Fan Status	1- > BIT - 0 BIT - 1 BIT - 2 BIT - 3 BIT - 4 BIT - 7 BIT - 15 0 - 2 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	0 1 1 1 1 1 1 1 1 1 1 1 1 1	Forward Forward Reverse SU (Up-to-Frequency) OL (Overload) Ful (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output freq/RPM See Manual Fire Alarm Good communication No communication Stop Start Temp Run Mode Humidity Run Mode Reverse Forward Speed Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Eault)	Only reset in the case of a fault condition Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = False 1 = True 0 = False 1 = True Option, have to have temp sensor option Option, have to have humidity sensor option Only reset in the case of a fault condition
Fan 3	A00011 A00012 A10009 A10009 A10010 A10011 A10012 A10101 A10102 A00013 A00014 A00015 A00016	An Reset Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode Direction Speed set Ran Reset Fan Status	1- > BIT - 0 BIT - 1 BIT - 3 BIT - 4 BIT - 6 BIT - 7 BIT - 15 0-2 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0-	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output Current See Manual Fire Alarm Activated No Fire Alarm See Manual Fire Alarm Activated No Good communication Stop Start Temp Run Mode Humidity Run Mode Reverse Forward Speed Forward Speed Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Fault)	Only reset in the case of a fault condition Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = False 1 = True 0 = False 1 = True Option, have to have temp sensor option Option, have to have humidity sensor option Only reset in the case of a fault condition
Fan 3	A00011 A00012 A10009 A10009 A10010 A10011 A10012 A10101 A10102 A00013 A00014 A00015 A00016	An Reset Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan Node Direction Speed set Ran Reset Fan Status	1- > BIT - 0 BIT - 1 BIT - 2 BIT - 3 BIT - 4 BIT - 7 BIT - 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) Fu (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output freq/RPM See Manual Forward Seed Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Fault) Fault Occurrence	Max Hz or RPM can vary based on size/type of f Fault Codes listed in Fault code table 0 = False 1 = True 0 = False 1 = True Option, have to have temp sensor option Option, have to have temp sensor option Option, have to have humidity sensor option Only reset in the case of a fault condition
Fan 3	A00011 A00012 A10009 A10009 A10010 A10011 A10012 A10101 A10102 A00013 A00014 A00015 A00016 A10013	An Reset Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan LOC Fan Mode Direction Speed set Ran Reset Fan Status Motor speed Motor Speed	1- > BIT - 0 BIT - 1 BIT - 2 BIT - 3 BIT - 4 BIT - 7 BIT - 15 0 - 2 0 -  0 -  0 -  0 -  0 -  0 -  0 -	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Forward Forward Reverse SU (Up-to-Frequency) OL (Overload) Ful (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output freq/RPM Start Temp Run Mode Humidity Run Mode Reverse Forward Speed Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Fault) Fault Occurrence	Only reset in the case of a fault condition Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = False 1 = True 0 = False 1 = True Option, have to have temp sensor option Option, have to have humidity sensor option Option, have to have humidity sensor option Only reset in the case of a fault condition Max Hz or RPM can vary based on size/type of fa
Fan 3	A00011 A00012 A10009 A10009 A10010 A10011 A10012 A10101 A10102 A00013 A00014 A10015 A10013 A10014 A10014 A10014	An Reset Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode Direction Speed set Ran Reset Fan Status Motor speed Motor Current	1- > BIT - 0 BIT - 1 BIT - 2 BIT - 2 BIT - 2 BIT - 3 BIT - 4 BIT - 6 BIT - 15 0 - 2	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 1	Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overfoad) FU (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output Current See Manual Fire Alarm Activated No Fire Alarm Good communication No communication Stop Start Temp Run Mode Humidity Run Mode Reverse Forward Speed Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM	Only reset in the case of a fault condition Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = False 1 = True 0 ption, have to have temp sensor option Option, have to have humidity sensor option Only reset in the case of a fault condition Only reset in the case of a fault condition Max Hz or RPM can vary based on size/type of fa Fault Rode Rendered as fault condition
Fan 3	A00011 A00012 A10009 A10009 A10010 A10011 A10012 A10101 A10102 A00013 A00014 A00015 A10013 A10015 A10016	An Reset Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode Direction Speed set Ran Reset Fan Status Motor speed Motor Current Fault Code	1- > BIT - 0 BIT - 1 BIT - 2 BIT - 3 BIT - 4 BIT - 7 BIT - 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) Fu (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output freq/RPM VFD Output Current See Manual Fire Alarm Activated No Fire Alarm Good communication No communication Stop Start Temp Run Mode Reverse Forward Speed Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM	Only reset in the case of a fault condition Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = False 1 = True 0 = False 1 = True Option, have to have temp sensor option Option, have to have humidity sensor option Option, have to have humidity sensor option Only reset in the case of a fault condition Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table Max Hz or RPM can vary based on size/type of fa
Fan 3	A00011 A00012 A10009 A10009 A10010 A10011 A10012 A10101 A10102 A00013 A00014 A00015 A10013 A10014 A10015 A10016 A10016 A10103	An Reset Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode Direction Speed set Ran Reset Fan Status Motor Speed Motor Current Fault Code Input Jumper/Fire Alarm	1- > BIT - 0 BIT - 1 BIT - 2 BIT - 3 BIT - 4 BIT - 7 BIT - 15 0 - 2 0 -  0 -  0 -  0 -  0 -  0 -  0 -	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Forward Forward Reverse SU (Up-to-Frequency) OL (Overload) Fu (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output freq/RPM VFD Output Current See Manual Fire Alarm Activated No fire Alarm Good communication No communication Stop Start Temp Run Mode Humidity Run Mode Reverse Forward Speed Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output Current See Manual Fire Alarm Activated	Only reset in the case of a fault condition Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = False 1 = True 0 = False 1 = True Option, have to have temp sensor option Option, have to have humidity sensor option Option, have to have humidity sensor option Only reset in the case of a fault condition  Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = False
Fan 3	A00011 A00012 A10009 A10009 A10010 A10011 A10012 A10101 A10102 A00013 A00014 A00015 A10013 A10014 A10015 A10016 A10016 A10103	An Reset Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode Direction Speed set Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact	1> BIT - 0 BIT - 1 BIT - 2 BIT - 3 BIT - 4 BIT - 7 BIT - 15	0 1 1 1 1 1 1 1 1 1 1 1 1 1	Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output Current See Manual Fire Alarm Activated No Fire Alarm Good communication No communication No communication Stop Start Temp Run Mode Humidity Run Mode Reverse Forward Speed Fault Reset Drive Running Forward Reverse SU (Up-to-Frequency) OL (Overload) FU (Frequency Detection) ABC (Fault) Fault Occurrence VFD output freq/RPM VFD Output freq/RPM	Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = False 1 = True Option, have to have temp sensor option Option, have to have temp sensor option Option, have to have temp sensor option Only reset in the case of a fault condition Max Hz or RPM can vary based on size/type of fa Fault Codes listed in Fault code table 0 = False 1 = True

Fan	BACnet Address	Register Description	Expecte	ed Data	Result/Status	Notes
			(	0	Stop	
	400017	Fan Mode	:	1	Start	
	A00017	Tan Wode	:	2	Temp Run Mode	Option, have to have temp sensor option
			3	3	Humidity Run Mode	Option, have to have humidity sensor option
	AO0018	Direction	-	1	Reverse	
	AO0019	Speed set	1-	10	Speed	
	A00020	Ran Reset	>	0	Fault Reset	Only reset in the case of a fault condition
			BIT - O	1	Drive Running	
			BIT - 1	1	Forward	
			BIT - 2	1	Reverse	
Fan 5	AI0017	Fan Status	BIT - 3	1	SU (Up-to-Frequency)	
			BIT - 4	1	OL (Overload)	
			BIT - 7	1	ABC (Fault)	
			BIT - 15	1	Fault Occurrence	
	AI0018	Motor speed	0-2	200	VFD output freq/RPM	Max Hz or RPM can vary based on size/type of fan
	AI0019	Motor Current	0	-5	VFD Output Current	
	AI0020	Fault Code		*	See Manual	Fault Codes listed in Fault code table
	AI0105	Input Jumper/Fire Alarm	(	0	Fire Alarm Activated	0 = False
		Contact		0	Good communication	1 = True
	AI0106	Fan LOC		1	No communication	1 = True
			(	0	Stop	
	400021	Fan Mode	:	1	Start	
	A00021	Tan Mode	:	2	Temp Run Mode	Option, have to have temp sensor option
				3	Humidity Run Mode	Option, have to have humidity sensor option
	AO0022	Direction	-	1	Reverse	
	400022	Speed cot	1	10	Forward	
	A00023	Ran Reset	1-	0	Speeu Fault Reset	Only reset in the case of a fault condition
	100024	hanneset	BIT - 0	1	Drive Running	
			BIT - 1	1	Forward	
			BIT - 2	1	Reverse	
Fan 6	AI0021	Fan Status	BIT - 3	1	SU (Up-to-Frequency)	
			BIT - 4	1	OL (Overload)	
			BIT-6	1	FU (Frequency Detection)	
			BIT - 15	1	Abc (Fault)	
	AI0022	Motor speed	0-200		VFD output freg/RPM	Max Hz or RPM can vary based on size/type of fan
	AI0023	Motor Current	0-5		VFD Output Current	
	AI0024	Fault Code		*	See Manual	Fault Codes listed in Fault code table
	AI0107	Input Jumper/Fire Alarm	(	0	Fire Alarm Activated	0 = False
		Contact		1	No Fire Alarm	1 = True
	AI0108	Fan LOC		1	Good communication	U = Faise
				1 D	Stop	1 - 110e
	100005			1	Start	
	A00025	Fan Mode	:	2	Temp Run Mode	Option, have to have temp sensor option
				3	Humidity Run Mode	Option, have to have humidity sensor option
	AO0026	Direction	-	1	Reverse	
	100007	6l		1	Forward	
	A00027	Speed set Ran Reset	-1-	0	Speed Fault Reset	Only reset in the case of a fault condition
	A00008	Nan Neset	BIT - 0	1	Drive Running	only reset in the case of a fault condition
			BIT - 1	1	Forward	
			BIT - 2	1	Reverse	
Fan 7	AI0025	N0025 Ean Status	BIT - 3	1	SU (Up-to-Frequency)	
			BIT - 4	1	OL (Overload)	
			BIT-6	1	FU (Frequency Detection)	
			BIT - 15	1	ABC (Fault)	
	AI0026	Motor speed	0-2	200	VFD output freg/RPM	Max Hz or RPM can vary based on size/type of fan
	AI0027	Motor Current	0	-5	VFD Output Current	, , , , , , , , , , , , , , , , , , ,
	AI0028	Fault Code		*	See Manual	Fault Codes listed in Fault code table
	AI0109	Input Jumper/Fire Alarm		0	Fire Alarm Activated	0 = False
		Contact		1	No Fire Alarm	1 = True
	AI0110	Fan LOC	(	1	Good communication	U = False
				n n	Stop	1-110e
				1	Start	
	AO0029	Fan Mode		2	Temp Run Mode	Option, have to have temp sensor option
			3	3	Humidity Run Mode	Option, have to have humidity sensor option
	AO0030	Direction	-	1	Reverse	
	4000001	Constant		1	Forward	
	A00031	Speed set	1-	0	Speed Fault Reset	Only reset in the case of a fault condition
	100052	hanneset	BIT - 0	1	Drive Running	
			BIT - 1	1	Forward	
			BIT - 2	1	Reverse	
Fan 8	AI0029	Fan Status	BIT - 3	1	SU (Up-to-Frequency)	
			BIT - 4	1	OL (Overload)	
			BIT - 7	1	ABC (Fault)	
			BIT - 15	1	Fault Occurrence	
	AI0030	Motor speed	0-2	200	VFD output freq/RPM	Max Hz or RPM can vary based on size/type of fan
	AI0031	Motor Current	0	-5	VFD Output Current	
	AI0032	Fault Code	1	*	See Manual	Fault Codes listed in Fault code table
	AI0111	Input Jumper/Fire Alarm	(	0	Fire Alarm Activated	0 = False
		Contact		1	No Fire Alarm	1 = Irue
	AI0112	Fan LOC		5 1	No communication	0 - raise 1 = True
		1		-		1=

						The lafe	notes
					· · · · · · · · · · · · · · · · · · ·	The information contained her confidential to 4Front Enginee	ein is property and red Solutions. and is to
Fan	BACnet Address	Register Description	Expected Data	Result/Status	Notes	be used solely for the express and development of the article	purpose of consideration described herein and
			0	Stop		may not be reproduced or diss permission of 4 Front Engineer	eminated without the
	AO0033	Fan Mode	2	Start Temp Run Mode	Option, have to have temp sensor option	Engineered Solutions reserves	the right to incorporate
_			3	Humidity Run Mode	Option, have to have humidity sensor option	product improvements without	prior notice.
	AO0034	Direction	-1	Reverse		NOTES:	
	AO0035	Speed set	1-10	Speed		1) ELECTRICAL CONTRAC ENSURE THAT ALL ELECT	TOR SHALL R <b>I</b> CAL WORK
-	AO0036	Ran Reset	>0 BIT-0 1	Fault Reset Drive Running	Only reset in the case of a fault condition	MEETS LOCAL ELECTRICA	AL CODES.
			BIT-1 1	Forward		2) RECOMENDED COMMU	NICATION
can 0			BIT - 2 1	Reverse		CABLE BELDEN 8723	
	AI0033	Fan Status	BIT-4 1	OL (Overload)		3) ALL CONDUIT BY OTHE	RS
			BIT-6 1	FU (Frequency Detection)			
			BIT - 15 1	Fault Occurrence			
-	AI0034	Motor speed	0-200	VFD output freq/RPM	Max Hz or RPM can vary based on size/type of fan		
ŀ	A10035 A10036	Fault Code	*	See Manual	Fault Codes listed in Fault code table		
	AI0113	Input Jumper/Fire Alarm	0	Fire Alarm Activated	0 = False		
-		Contact	0	No Fire Alarm Good communication	1 = True 0 = False		
	AI0114	Fan LOC	1	No communication	1 = True		
			0	Stop			
	AO0037	Fan Mode	2	Temp Run Mode	Option, have to have temp sensor option		
-			-1	Humidity Run Mode	Option, have to have humidity sensor option		
	AO0038	Direction	1	Forward			
-	A00039	Speed set	1-10	Speed	Only reset in the case of a fault condition		
-	AUUU4U	ndii Reset	BIT-0 1	Drive Running			
			BIT - 1 1	Forward			
an 10	410027	For a Charles	BIT-2 1 BIT-3 1	SU (Up-to-Frequency)			
	A10037	Fan Status	BIT - 4 1	OL (Overload)			
			BIT-6 1 BIT-7 1	FU (Frequency Detection) ABC (Fault)			
-			BIT - 15 1	Fault Occurrence			
-	AI0038 AI0039	Motor speed Motor Current	0-200	VFD output freq/RPM VFD Output Current	Max Hz or RPM can vary based on size/type of fan		
	A10040	Fault Code	*	See Manual	Fault Codes listed in Fault code table		
	AI0115	Input Jumper/Fire Alarm	0	Fire Alarm Activated	0 = False		
Ī	40116	Fan LOC	0	Good communication	0 = False		
	///0110	Turree	1	No communication	1 = True		
-	400041	Ean Mode	1	Start			
	A00041	ran wode	2	Temp Run Mode	Option, have to have temp sensor option		
	400042	Disection	-1	Reverse	Option, have to have numidity sensor option		
	A00042	Direction	1	Forward			
-	AO0043 AO0044	Ran Reset	> 0	Speed Fault Reset	Only reset in the case of a fault condition		
			BIT - 0 1	Drive Running	· · · · · · · · · · · · · · · · · · ·		
			BIT-1 1 BIT-2 1	Forward Reverse			
an 11	AI0041	Fan Status	BIT - 3 1	SU (Up-to-Frequency)			
			BIT-4 1 BIT-6 1	OL (Overload) FU (Frequency Detection)			
			BIT - 7 1	ABC (Fault)			
-	AI0042	Motor speed	BIT - 15 1 0-200	Fault Occurrence VED output freg/RPM	Max Hz or RPM can vary based on size/type of fan		
	AI0043	Motor Current	0-5	VFD Output Current			
-	AI0044	Fault Code	*	See Manual Fire Alarm Activated	Fault Codes listed in Fault code table		
	Al0117	Contact	1	No Fire Alarm	1 = True		
	AI0118	Fan LOC	0	Good communication	0 = False		
			0	Stop	<u>x - 1105</u>		
	AO0045	Fan Mode	1	Start	Ontion have to have to your office of the		
			3	Humidity Run Mode	Option, have to have temp sensor option		
[	AO0046	Direction	-1	Reverse			
-	AO0047	Speed set	1-10	Speed			
-	AO0048	Ran Reset	> 0	Fault Reset	Only reset in the case of a fault condition		
			BIT-0 1 BIT-1 1	Forward		REVIEW I	DRAWING
			BIT - 2 1	Reverse		THIS DRAWING IS N CONSTRI	OT INTENDED FOR JCTION.
an 12	AI0045	Fan Status	BIT-3 1 BIT-4 1	SU (Up-to-Frequency) OL (Overload)		PLEASE CONSULT WITH R	EGISTERED ARCHITECT
			BIT - 6 1	FU (Frequency Detection)		ENGINEER FOR ALL	LOADS ANALYSIS
			BIT - 7 1 BIT - 15 1	ABC (Fault) Fault Occurrence		AND SPECIFICATIO	NS CONFORMITY.
	AI0046	Motor speed	0-200	VFD output freq/RPM	Max Hz or RPM can vary based on size/type of fan	Firm Name and Addres	s
-	AI0047	Motor Current	0-5	VFD Output Current	Fault Codes listed in Fault code table	1 11 /-	DONT
-	AI0119	Input Jumper/Fire Alarm	0	Fire Alarm Activated	0 = False		RUNI
-		Contact	1	No Fire Alarm	1 = True 0 = False	T aneine	IRED SOLUTIONS
	AI0120	Fan LOC	1	No communication	1 = True		
_						1612 HUTTON DR CAR	ROLLTON TX 75006
						\$72.400.0707 800.525.20	TH TAN 9/2.323.2003
						Drawn By:	Regional Sale Manager:
						CCI	TBD
						Date:	Drawing Number:
						02/20/2025	6027001S
							Sheet Number: Rev
						NTC	
						010	
	P/N 6	6027001S - iFan	WITH OPT	IONAL NETWO	ORK FCP, TEMPERATURE S	ENSOR, AND AN	EMOMETER

Revision	Date	Drawn By	Description	Revision	Date	Reference	Description	
А	02/20/2025	CI	INITIAL RELEASE					

BACnet	Mappin	a Cont.
D/ 10/101	mappin	9 00110

Fan	BACnet Address	Register Description	Expected Data	Result/Status	Notes
	400040	Enn Kind-	1	Start	
	AO0049	Fan Mode	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	Forward	
	AO0051	Speed set	1-10	Speed	
-	AO0052	Ran Reset	>0	Fault Reset	Only reset in the case of a fault condition
			BIT-0 1 BIT-1 1	Forward	
			BIT - 2 1	Reverse	
Fan 13	AI0049	Fan Status	BIT - 3 1	SU (Up-to-Frequency)	
			BIT - 4 1	OL (Overload)	
			BIT-7 1	ABC (Fault)	
			BIT - 15 1	Fault Occurrence	
-	AI0050	Motor speed	0-200	VFD output freq/RPM	Max Hz or RPM can vary based on size/type of fan
	AI0051	Motor Current Fault Code	0-5	VFD Output Current	Fault Codes listed in Fault code table
	410032	Input Jumper/Fire Alarm	0	Fire Alarm Activated	0 = False
	AIU121	Contact	1	No Fire Alarm	1 = True
	AI0122	Fan LOC	0	Good communication	0 = False
			0	No communication	1 = True
	400053	Fan Modo	1	Start	
	AU0053	Fall WOOle	2	Temp Run Mode	Option, have to have temp sensor option
			3	Humidity Run Mode	Option, have to have humidity sensor option
	AO0054	Direction	-1	Forward	
	AO0055	Speed set	1-10	Speed	
	AO0056	Ran Reset	>0	Fault Reset	Only reset in the case of a fault condition
			BIT-0 1	Drive Running	
			BIT-2 1	Reverse	
Fan 14	AI005.3	Ean Status	BIT - 3 1	SU (Up-to-Frequency)	
	A10055	Fall Status	BIT - 4 1	OL (Overload)	
			BIT - 6 1	FU (Frequency Detection)	
			BIT - 15 1	Fault Occurrence	
	AI0054	Motor speed	0-200	VFD output freq/RPM	Max Hz or RPM can vary based on size/type of fan
	AI0055	Motor Current	0-5	VFD Output Current	
	AI0056	Fault Code	*	See Manual Fire Alarm Activisted	Fault Codes listed in Fault code table
	AI0123	Contact	1	No Fire Alarm	1 = True
	AI0124	Fan LOC	0	Good communication	0 = False
└───┤	/10124	Tanteoc	1	No communication	1 = True
			0	Stop Start	
	AO0057	Fan Mode	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	
	AO0059	Speed set	1-10	Speed	
[	AO0060	Ran Reset	>0	Fault Reset	Only reset in the case of a fault condition
			BIT-0 1	Drive Running	
			BII-1 1 BIT-2 1	Reverse	
Fan 15	410057	For Charle	BIT - 3 1	SU (Up-to-Frequency)	
	AIUU57	Fan Status	BIT - 4 1	OL (Overload)	
			BIT - 6 1	FU (Frequency Detection)	
			BIT-15 1	Fault Occurrence	
	AI0058	Motor speed	0-200	VFD output freq/RPM	Max Hz or RPM can vary based on size/type of fan
	AI0059	Motor Current	0-5	VFD Output Current	
	AI0060	Fault Code	*	See Manual	Fault Codes listed in Fault code table
	AI0125	Contact	1	No Fire Alarm	1 = True
	AI012C	Familoc	0	Good communication	0 = False
$ \square$	MIUTZP	ran LUC	1	No communication	1 = True
			0	Stop	
	AO0061	Fan Mode	2	Juari Temp Run Mode	Option, have to have temp sensor option
			3	Humidity Run Mode	Option, have to have humidity sensor option
	AO0067	Direction	-1	Reverse	
	100002	Sincerion Caral 1	1	Forward	
	A00063 A00064	speed set Ran Reset	> 0	speed Fault Reset	Only reset in the case of a fault condition
			BIT - 0 1	Drive Running	
			BIT - 1 1	Forward	
Ennit			BIT - 2 1	Reverse	
ran 10	AI0061	Fan Status	BIT-4 1	OL (Op-10-Frequency)	
			BIT - 6 1	FU (Frequency Detection)	
			BIT - 7 1	ABC (Fault)	
	A10062	Mater and - 1	BIT - 15 1	Fault Occurrence	May Liz or DDM cap years based on size three of for
	AI0062 AI0063	Motor Speed	0-200	VFD Output freq/RPM	wax nz or KPW can vary based on size/type of fan
	AI0064	Fault Code	*	See Manual	Fault Codes listed in Fault code table
F	AI0127	Input Jumper/Fire Alarm	0	Fire Alarm Activated	0 = False
		Contact	1	No Fire Alarm	1 = True
				U-000 COF	
-	AI0128	Fan LOC	0	No communication	1 = True
-	AI0128	Fan LOC	0	No communication	1 = True

an	BACnet Address	Register Description	Expected Data	Result/Status Stop	Notes	Far
	AO0065	Fan Mode	1	Start Temp Rup Mode	Ontion, have to have terms sensor ontion	
			3	Humidity Run Mode	Option, have to have humidity sensor option	
	AO0066	Direction	-1	Reverse		
	400067	Coord out	1	Forward		
	A00067 A00068	speed set Ran Reset	>0	Fault Reset	Only reset in the case of a fault condition	
			BIT - 0 1	Drive Running		
			BIT - 1 1	Forward		
n 17			BIT - 2 1	Reverse		Fan
11/	AI0065	Fan Status	BIT-4 1	OL (Overload)		ran
			BIT - 6 1	FU (Frequency Detection)		
			BIT - 7 1	ABC (Fault)		
	410066	Motor speed	BIT - 15 1	Fault Occurrence	Max Hz or PDM can yany based on size/type of fan	
	AI0067	Motor speed Motor Current	0-200	VFD Output Current	Max hz of NEW can vary based of size/ type of fait	
	AI0068	Fault Code	*	See Manual	Fault Codes listed in Fault code table	
	AI0129	Input Jumper/Fire Alarm	0	Fire Alarm Activated	0 = False	
		Contact	0	Good communication	0 = False	
	AI0130	Fan LOC	1	No communication	1 = True	
			0	Stop		
	AO0069	Fan Mode	1	Start Temp Run Mode	Ontion, have to have terms sensor option	
			3	Humidity Run Mode	Option, have to have temp sensor option	
	AO0070	Direction	-1	Reverse		
	400071	Constant of	1	Forward		
	AUUU/1 AO0072	speed set Ran Reset	1-10	Speed Fault Reset	Only reset in the case of a fault condition	
			BIT-0 1	Drive Running		
			BIT - 1 1	Forward		
n 19			BIT - 2 1	Reverse		Ear
. 10	AI0069	Fan Status	BIT-4 1	OL (Overload)		rail.
			BIT - 6 1	FU (Frequency Detection)		
			BIT - 7 1	ABC (Fault)		
	A10070	Motor speed	0-60	VED output frequency	Max frequency can vary based on size of fan	
	AI0071	Motor Current	0-5	VFD Output Current	· · · · · · · · · · · · · · · · · · ·	
	AI0072	Fault Code	*	See Manual	Fault Codes listed in Fault code table	
	AI0131	Input Jumper/Fire Alarm	0	Fire Alarm Activated	0 = False	
		Contact	0	Good communication	0 = False	
	AI0132	Fan LOC	1	No communication	1 = True	
			0	Stop		
	AO0073	Fan Mode	2	Start Temp Run Mode	Ontion, have to have temp sensor option	
			3	Humidity Run Mode	Option, have to have temp sensor option	
	AO0074	Direction	-1	Reverse		
	400075	Speed set	1	Forward		
	A00075	Ran Reset	>0	Fault Reset	Only reset in the case of a fault condition	
			BIT-0 1	Drive Running		
			BIT-1 1	Forward		
n 19			BIT-2 1 BIT-3 1	SU (Up-to-Frequency)		Fan
	AI0073	Fan Status	BIT - 4 1	OL (Overload)		
			BIT - 6 1	FU (Frequency Detection)		
			BIT - 7 1	ABC (Fault)		
	AI0074	Motor speed	0-200	VFD output freq/RPM	Max Hz or RPM can vary based on size/type of fan	
	AI0075	Motor Current	0-5	VFD Output Current		
	AI0076	Fault Code	*	See Manual	Fault Codes listed in Fault code table	
	AI0133	Al0133 Contact 1		No Fire Alarm	1 = True	
	AI0134	Fan LOC	0	Good communication	0 = False	
				No communication	1 = True	
			1	Start		
	AO0077	Fan Mode	2	Temp Run Mode	Option, have to have temp sensor option	
			3	Humidity Run Mode	Option, have to have humidity sensor option	
	AO0078	Direction	-1	Reverse		
	AO0079	Speed set	1-10	Speed		
	AO0080	Ran Reset	>0	Fault Reset	Only reset in the case of a fault condition	
			BIT - 0 1	Drive Running		
			BIT-2 1	Forward Reverse		
n 20	A10077	Ean Statur	BIT - 3 1	SU (Up-to-Frequency)		Fan
	AIU077	Fan Status	BIT - 4 1	OL (Overload)		
			BIT-6 1	FU (Frequency Detection)		
			BIT - 15 1	Fault Occurrence		
	AI0078	BIT - 15         1         Fault Occurr           D078         Motor speed         0-200         VFD output f		VFD output freq/RPM	Max Hz or RPM can vary based on size/type of fan	
	AI0079	Motor Current	0-5	VFD Output Current		
	A10080	Fault Code	*	See Manual Fire Alarm Activated	Fault Codes listed in Fault code table	
	1.0000	and the second s	/Fire Alarm 0 Fire Alarm Activated		0 - Taise	
	AI0135	Contact	1	No Fire Alarm	1 = True	
	AI0135	Contact Fan LOC	1 0	No Fire Alarm Good communication	0 = False	

	BACnet Address	Register Description	Expected Data
			0
	AO0081	Fan Mode	1
			2
			-1
	AO0082	Direction	1
	AO0083	Speed set	1-10
	AO0084	Ran Reset	> 0
Fan 21	AI0081	Fan Status	BIT - 0         1           BIT - 1         1           BIT - 2         1           BIT - 3         1
	40000	<b>11</b>	BIT - 4         1           BIT - 6         1           BIT - 7         1           BIT - 15         1
	AI0082	Motor speed	0-200
	AI0083	Motor Current	0-5
	A10084	Input Jumper/Fire Alarm	0
	AI0137	Contact	1 0
	AI0138	Fan LOC	1
	A00085	Fan Mode	0 1 2 3
	AO0086	Direction	-1 1
	AO0087	Speed set	1-10
	AO0088	Ran Reset	>0
Fan 22	A10085	Fan Status	BIT - 0         1           BIT - 1         1           BIT - 2         1           BIT - 3         1
	410085	Materia	BIT - 4         1           BIT - 6         1           BIT - 7         1           BIT - 15         1
	AI0080	Motor Speed	0-200
	AI0088	Fault Code	*
		Input Jumper/Fire Alarm	0
	AI0139	Contact	1
	AI0140	Fan LOC	1 0
	AO0089	1 2 3	
			-1
	AO0090	Direction	-1
	A00090 A00091	Direction Speed set	-1 1 1-10
	A00090 A00091 A00092	Direction Speed set Ran Reset	-1 1 1-10 > 0
Fan 23	A00090 A00091 A00092 A10089	Direction Speed set Ran Reset Fan Status	-1 1 1.10 >0 BIT -0 1 BIT -1 BIT -1 BIT -4 1 BIT -4 1 BIT -6 1 BIT -1 1 BIT -1 1 BIT -1 1 BIT -2 1 BIT -3 1 BIT -4 1 BIT -4 1 BIT -2 1 BIT -4 1 BIT -2 1 BIT -4 1 BIT -2 1 BIT -4 1 BIT -2 1 BIT -2 1 BIT -4 1 BIT -2 1 BIT -4 1 BIT -4 1 BIT -5 1 BIT -4 1 BIT -5 1 BIT -4 1 BIT -5 1 BIT -4 1 BIT -5 1 BIT -4 1 BIT -5 1 BIT -5 1
Fan 23	ACC090 ACC091 ACC092 ACC092 ACC092 ACC092 ACC092	Direction Speed set Ran Reset Fan Status Motor speed	-1 1 1.10 >0 BIT-0 1 BIT-1 BIT-2 1 BIT-4 1 BIT-4 1 BIT-6 1 BIT-7 1 BIT-7 1 BIT-1 0 0 0 0 0 0 0 0 0 0 0 0 0
Fan 23	A00090 A00091 A00092 A00092 A10089 A10090 A10091 A10091	Direction Speed set Ran Reset Fan Status Motor speed Motor Current Fault Code	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Fan 23	AC0090 AC0091 AC0092 AI0089 AI0089 AI0090 AI0091 AI0092	Direction Speed set Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumeer/Fire Alarm	-1 1 1-10 >0 BIT-0 I BIT-0 I BIT-1 BIT-2 I BIT-3 I BIT-3 I BIT-3 I BIT-4 I BIT-6 I BIT-7 I D I I I I I I I I I I I I I
Fan 23	AC0090 AC0091 AC0092 AI0089 AI0089 AI0090 AI0091 AI0092 AI0141	Direction Speed set Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Fan 23	A00090 A00091 A00092 A00092 A10089 A10090 A10091 A10092 A10141 A10142	Direction Speed set Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC	-1 1 1-10 > 0 BIT -0 I BIT -1 BIT -2 I BIT -2 I BIT -3 I BIT -3 I BIT -4 I BIT -6 I BIT -6 I BIT -7 I BIT -6 I BIT -7 I BIT -6 I BIT -7 I BIT -6 I BIT -7 I BIT -7 I O -200 O I I I I I I I I I I I I I
Fan 23	ACC090 ACC091 ACC092 ACC092 ACC092 ACC099 ACC099 ACC099 ACC099 ACC093	Direction Speed set Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Fan 23	AC0090 AC0091 AC0092 AI0089 AI0089 AI0090 AI0091 AI0092 AI0141 AI0142 AC0093 AC0094	Direction Speed set Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode Direction	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Fan 23	AC0090 AC0091 AC0092 AI0089 AI0089 AI0090 AI0091 AI0092 AI0141 AI0142 AC0093 AC0094	Direction Speed set Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode Direction	-1 1 1-10 > 0 BIT -0 I 1 BIT -1 BIT -2 I 1 BIT -2 I 1 BIT -3 I 1 BIT -6 I 1 BIT -6 I 1 BIT -7 I 1 BIT -7 I 1 0 -200 0 -5 * 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1
Fan 23	AC0090 AC0091 AC0092 AI0089 AI0089 AI0090 AI0091 AI0091 AI0092 AI0141 AI0142 AC0093 AC0094	Direction Speed set Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode Direction Speed set Ran Prost	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Fan 23	AC0090 AC0091 AC0092 AI0089 AI0089 AI0090 AI0091 AI0091 AI0092 AI0141 AI0142 AC0093 AC0094 AC0095 AC0096	Direction Speed set Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode Direction Speed set Ran Reset Fan Status	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Fan 23	AC0090 AC0091 AC0092 AI0089 AI0089 AI0090 AI0091 AI0092 AI0141 AI0142 AC0093 AC0094 AC0095 AC0096 AI0093	Direction Speed set Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode Direction Speed set Ran Reset Fan Status Fan Status	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Fan 23	AC0090 AC0091 AC0092 AI0089 AI0089 AI0090 AI0091 AI0092 AI0141 AI0142 AC0093 AC0094 AC0095 AC0096 AI0094 AI0094 AI0095	Direction Speed set Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode Direction Speed set Ran Reset Fan Status Fan Status Motor speed Motor Current	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Fan 23	AC0090 AC0091 AC0092 AI0089 AI0089 AI0090 AI0091 AI0092 AI0141 AI0142 AC0093 AC0094 AC0095 AC0094 AI0093 AI0093	Direction Speed set Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC Fan Mode Direction Speed set Ran Reset Fan Status Fan Status Motor speed	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Fan 23	AC0090 AC0091 AC0092 AI0089 AI0089 AI0090 AI0091 AI0092 AI0141 AI0142 AC0093 AC0094 AC0095 AC0096 AI0094 AI0095 AI0096 AI0143	Direction Speed set Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan Mode Direction Speed set Ran Reset Fan Status Motor Speed Motor Current Fault Code Input Jumper/Fire Alarm	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Fan 23	AC0090 AC0091 AC0092 AI0089 AI0089 AI0090 AI0091 AI0092 AI0141 AI0142 AC0093 AC0094 AC0095 AC0096 AI0093 AI0094 AI0094 AI0095 AI0096 AI0096 AI0143 AI0144	Direction Speed set Ran Reset Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan Node Direction Speed set Ran Reset Fan Status Fan Status Motor speed Motor Current Fault Code Input Jumper/Fire Alarm Contact Fan LOC	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

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			The information contained her	rein is property and pred Solutions, and is to
Result/Status	Notes		be used solely for the express	purpose of consideration
art			and development of the article may not be reproduced or dise	e described herein and seminated without the
mp Run Mode	Option, have to have temp sensor option		permission of 4Front Engineer	red Solutions, 4Front s the right to incorporate
umidity Run Mode	Option, have to have humidity sensor option		product improvements without	t prior notice.
orward			NOTES:	
eed ult Resot	Only reset in the case of a fault the		1) ELECTRICAL CONTRAC	TOR SHALL
rive Running	only reset in the case of a fault condition		ENSURE THAT ALL ELECT	I RICAL WORK AL CODES
orward				
everse J (Up-to-Frequency)			CABLE BELDEN 8723	
L (Overload)			3) ALL CONDUIT BY OTHE	RS
J (Frequency Detection)				
ult Occurrence				
D output freq/RPM	Max Hz or RPM can vary based on size/type of fan			
יט output Current e Manual	Fault Codes listed in Fault code table			
re Alarm Activated	0 = False			
o Fire Alarm	1 = True			
p communication	1 = True			
op				
emp Run Mode	Option, have to have temp sensor option			
umidity Run Mode	Option, have to have humidity sensor option			
everse irward				
eed				
ult Reset	Only reset in the case of a fault condition			
rward				
everse				
(Up-to-Frequency) (Overload)				
I (Frequency Detection)				
BC (Fault)				
D output freg/RPM	Max Hz or RPM can vary based on size/type of fan			
D Output Current	Ende Carde Disc 10 To 10			
e Manual	Fault Codes listed in Fault code table			
o Fire Alarm	1 = True			
ood communication	0 = False			
o communication	1 - True			
art				
mp Run Mode	Option, have to have temp sensor option			
everse	- periority nerver to make numbratly sensor option			
rward				
eea ult Reset	Only reset in the case of a fault condition			
ive Running				
rward				
I (Up-to-Frequency)				
(Overload)				
rrequency Detection) 3C (Fault)				
ult Occurrence				
D output freq/RPM	Max Hz or RPM can vary based on size/type of fan			
e Manual	Fault Codes listed in Fault code table			
e Alarm Activated	0 = False			
o Fire Alarm	u = True 0 = False			
communication	1 = True			
op art				
mp Run Mode	Option, have to have temp sensor option			
umidity Run Mode	Option, have to have humidity sensor option			
everse irward				
eed			DENIER 1	DRAWING
ult Reset	Only reset in the case of a fault condition		THIS DRAWING IS N	IOT INTENDED FOR
rward			CONSTR PLEASE CONSULT WITH F	REGISTERED ARCHITECT
everse			OR PROFF ENGINEER FOR ALL	-ESIONAL LOADS ANALYSIS
Up-to-Frequency) (Overload)			AND SPECIFICATIO	ONS CONFORMITY.
(Frequency Detection)			Firm Name and Addres	SS
BC (Fault)			11	
D output freq/RPM	Max Hz or RPM can vary based on size/type of fan		<u>-</u>	RONT
D Output Current	Fault Codes listed in Fault and the State		T	TRED SOLUTIONS
e Alarm Activated	0 = False		• <b>F</b>	
o Fire Alarm	1 = True		1612 HUTTON DR CA	RROLLTON TX 75006
ood communication	u = Faise 1 = True		972.466.0707 800.525.20	UTO FAX 972.323.2663
			Drawn By:	Regional Sale Marrow
			CCI	
			Date: 02/20/2025	6027001S
			02/20/2020	
			Scale:	
			NIS	10 OF 12 A
PTIONAL NE	TWORK FCP, TEMPERAT	URE SE	NSOR, AND AN	IEMOMETER
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## BACnet Mapping Cont.

Fan	BACnet Address	Register Description	Expected Data	Result/Status	Notes
	AO0097	Fan Mode	1	Start	
			2	Temp Run Mode	Option, have to have temp sensor option
			-1	Reverse	option, have to have numicity sensor option
	AO0098	Direction	1	Forward	
	AO0099	Speed set	1-10	Speed	
	AO0100	Ran Reset	>0	Fault Reset	Only reset in the case of a fault condition
			BIT-1 1	Forward	
			BIT - 2 1	Reverse	
Fan 25	AI0145	Fan Status	BIT - 3 1	SU (Up-to-Frequency)	
			BIT - 4 1	OL (Overload)	
			BII-6 1 BIT-7 1	FU (Frequency Detection)	
			BIT-15 1	Fault Occurrence	
	AI0146	Motor speed	0-200	VFD output freq/RPM	Max Hz or RPM can vary based on size/type of fan
	AI0147	Motor Current	0-5	VFD Output Current	
	AI0148	Fault Code	*	See Manual	Fault Codes listed in Fault code table
	AI0149	Contact	1	No Fire Alarm	1 = True
	410150	E LOC	0	Good communication	0 = False
	A10150	Fan LOC	1	No communication	1 = True
			0	Stop	
	AO0101	Fan Mode	2	Start Temp Rup Mode	Ontion, have to have temp concor ontion
			3	Humidity Run Mode	Option, have to have temp sensor option
	100100	D'	-1	Reverse	option, have to have harmany sensor option
	A00102	Direction	1	Forward	
	AO0103	Speed set	1-10	Speed	
	AO0104	Ran Reset	>0	Fault Reset	Only reset in the case of a fault condition
			BIT-1 1	Drive Running Forward	
			BIT-2 1	Reverse	
Fan 26	410151	Fan Status	BIT - 3 1	SU (Up-to-Frequency)	
	AIGIDI	Tanotatus	BIT - 4 1	OL (Overload)	
			BIT-6 1	FU (Frequency Detection)	
			BIT-15 1	Fault Occurrence	
	AI0152	Motor speed	0-200	VFD output freq/RPM	Max Hz or RPM can vary based on size/type of fan
	AI0153	Motor Current	0-5	VFD Output Current	
	AI0154	Fault Code	*	See Manual	Fault Codes listed in Fault code table
	AI0155	Input Jumper/Fire Alarm	0	Fire Alarm Activated	0 = False
		Contact	0	Good communication	0 = False
	AI0156	Fan LOC	1	No communication	1 = True
			0	Stop	
	AO0105	00105 Fan Mode	1	Start Tomp Rup Mode	Option, have to have tamp concer option
			3 Humidity Run Mode		Option, have to have temp sensor option
	400106	Direction	-1	Reverse	
	A00100	Direction	1	Forward	
	A00107	Speed set	1-10	Speed Foult Pocot	Only repet in the case of a fault condition
	A00100	Narricset	BIT-0 1	Drive Running	
			BIT - 1 1	Forward	
			BIT - 2 1	Reverse	
Fan 27	AI0157	Fan Status	BIT - 3 1	SU (Up-to-Frequency)	
			BIT-6 1	ELL (Erequency Detection)	
			BIT - 7 1	ABC (Fault)	
			BIT - 15 1	Fault Occurrence	
	AI0158	Motor speed	0-200	VFD output freq/RPM	Max Hz or RPM can vary based on size/type of fan
	AI0159	Motor Current	0-5	VFD Output Current	Foult Codes listed in Foult code to be
	MIDTOD	Input Jumper/Fire Alarm	0	Fire Alarm Activated	0 = False
	AI0161	Contact	1	No Fire Alarm	1 = True
	AI0162	Fan LOC	0	Good communication	0 = False
	,		1	No communication	1 = True
			0	Stop	
	AO0109	Fan Mode	2	Temp Run Mode	Option, have to have temp sensor option
			3	Humidity Run Mode	Option, have to have humidity sensor option
	A00110	Direction	-1	Reverse	
	200110	Direction	1	Forward	
	A00111	Speed set	1-10	Speed	Only report in the case of a fault in 197
	A00112	kan keset	>U BIT-0 1	Drive Running	Universition the case of a fault condition
			BIT-1 1	Forward	
			BIT - 2 1	Reverse	
Fan 28	AI0163	Fan Status	BIT - 3 1	SU (Up-to-Frequency)	
			BIT - 4 1	OL (Overload)	
			BII-6 1 BIT-7 1	ABC (Fault)	
			BIT - 15 1	Fault Occurrence	
	AI0164	Motor speed	0-200	VFD output freq/RPM	Max Hz or RPM can vary based on size/type of fan
	AI0165	Motor Current	0-5	VFD Output Current	
	AI0166	Fault Code	*	See Manual	Fault Codes listed in Fault code table
	AI0167	Input Jumper/Fire Alarm	0	Fire Alarm Activated	0 = False
		Contact	0	Good communication	0 = False
	AI0168	Fan LOC	1	No communication	1 = True
		1	-		I

Fan	BACnet Address	Register Description	Expected Data		Result/Status	Notes
	Diferentiation	negister beschption			Ston	
				, 1	Start	
	AO0113	Fan Mode		,	Temp Run Mode	Option, have to have temp sensor option
				 २	Humidity Run Mode	Option, have to have humidity sensor option
				1	Reverse	
	AO0114	Direction			Forward	
	AO0115	Speed set	1-	- 10	Speed	
	AO0116	Ran Reset	>	0	Fault Reset	Only reset in the case of a fault condition
			BIT - O	1	Drive Running	
			BIT - 1	1	Forward	
			BIT - 2	1	Reverse	
Fan 29	1101.50	5 0 1	BIT - 3	1	SU (Up-to-Frequency)	
	AI0169	Fan Status	BIT - 4	1	OL (Overload)	
			BIT - 6	1	FU (Frequency Detection)	
			BIT - 7	1	ABC (Fault)	
			BIT - 15	1	Fault Occurrence	
	AI0170	Motor speed	0-2	200	VFD output freg/RPM	Max Hz or RPM can vary based on size/type of fa
	AI0171	Motor Current	0	-5	VFD Output Current	
	AI0172	Fault Code	*		See Manual	Fault Codes listed in Fault code table
		Input Jumper/Fire Alarm	0		Fire Alarm Activated	0 = False
	AI0173	Contact			No Fire Alarm	1 = True
		oontaot		- )	Good communication	0 = False
	Al0174	Fan LOC		1	No communication	1 = True
			0		Stop	
			1		Start	
	AO0117	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	Ran Reset	>	0	Fault Reset	Only reset in the case of a fault condition
			BIT - O	1	Drive Running	
			BIT - 1	1	Forward	
			BIT - 2	1	Reverse	
Fan 30	10175	5 O	BIT - 3	1	SU (Up-to-Frequency)	
	AI0175	Fan Status	BIT - 4	1	OL (Overload)	
			BIT - 6	1	FU (Frequency Detection)	
			BIT - 7	1	ABC (Fault)	
			BIT - 15	1	Fault Occurrence	
	AI0176	Motor speed	0-2	200	VFD output freg/RPM	Max Hz or RPM can vary based on size/type of fa
	AI0177	Motor Current	0	-5	VFD Output Current	
	AI0178	Fault Code	,	k	See Manual	Fault Codes listed in Fault code table
		Input Jumper/Fire Alarm	(	)	Fire Alarm Activated	0 = False
	AI0179	Contact		1	No Fire Alarm	1 = True
				)	Good communication	0 = False
	AI0180	Fan LOC		1	No communication	1 = True
			-			1

Revision	Date	Drawn By	Description	Revision	Date	Reference	Description		
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PTIONAL NETWORK FCP, TEMPERATURE SE	NSOR, AND AN	EMOMETER

# BACnet Mapping Cont.

		Bestitus Beendation	Francisco de Dista		
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
	AO1002	Reverse Start SP	>0	Temperature SP to Start in Reverse	Scaled by 10, so write 300 to get a value of 30
-	AO1003	Forward increment SP	> 0	Temperature FWD Inc	Scaled by 10, so write 300 to get a value of 30
Temp1	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	
		Tomporature (Humidity Sonsor	0	Good communication	0 = False
	AI1011		1	No communication	
			1	Temperature SP to Start in	1 - 1100
	AO1005	Forward Start SP	> 0	Forward	Scaled by 10, so write 800 to get a value of 80
	AO1006	Reverse Start SP		Temperature SP to Start in	Scaled by 10, so write 200 to get a value of 20
	401007	Earward incromont SP	>0	Temperature EWD Inc	Scaled by 10, so write 300 to get a value of 30
Temp2	A01007	Poweren increment SP	>0		Scaled by 10, so write 300 to get a value of 30
	AU1003	Scaled Temperature	>0		Scaled by 10, 30 write 500 to get a value of 50
	AI1002	Stated Temperature			
	AI1012	Temperature/Humidity Sensor	0	Good communication	U = Faise
		200	<u> </u>	Temperature SP to Start in	I = Irue
	AO1009	Forward Start SP	> 0	Forward	Scaled by 10, so write 800 to get a value of 80
	AO1010	Reverse Start SP		Temperature SP to Start in	Scaled by 10, so write 200 to get a value of 20
	401011	Example and the second CD	>0	Reverse	Scaled by 10, so write 300 to get a value of 30
Temp3	A01011	Forward increment SP	> 0		Scaled by 10, so write 300 to get a value of 30
-	A01012	Reverse Increment SP	> 0		Scaled by 10, so write 300 to get a value of 30
	AI1003	Scaled Temperature	##	Temperature FB	
	AI1013	Temperature/Humidity Sensor	0	Good communication	0 = False
		LOC	1	No communication	1 = True
	AO1013	Forward Start SP	> 0	Forward	Scaled by 10, so write 800 to get a value of 80
	AO1014	Reverse Start SP	>0	Temperature SP to Start in Reverse	Scaled by 10, so write 300 to get a value of 30
Tomm 4	AO1015	Forward increment SP	> 0	Temperature FWD Inc	Scaled by 10, so write 300 to get a value of 30
remp4	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	
		Temperature/Humidity Sensor	0	Good communication	0 = False
	AI1014	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	##	Humidity FB	
	AO1021	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	> 0	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	AO1027	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
	A01030	Reverse Start SP	>0	Humidity SP to Start in Reverse	Scaled by 10, so write 300 to get a value of 30
Humid4	401031	Forward increment SP	>0	Humidity FWD Inc	Scaled by 10, so write 300 to get a value of 30
inuniu-	401032	Reverse increment SP	>0	Humidity REV Inc	Scaled by 10, so write 300 to get a value of 30
	AI1008	Humidity	× 0 ##	Humidity FB	
	AQ1033	Wind Sot Point	## E 1E	Set Doint to shut off fond	
	A01034	Time	1 20	Seconds before shut off	Time above set point before shutoff
	A01034	Restart Time	1-20	Seconds before restart	Time below set point before restart
Wind	AI1009	Scaled Wind Sneed	×00 ##	Wind Sneed	Displayed in the selected units
willa	Δ11010	Direction	##	Wind Direction	
	711010		##	Good communication	
	AI1015	Wind Sensor LOC	1	No communication	
			0	Fire Alarm Activated	
	AI1016	Fire Alarm Contact		No Fire Alarm	
Fire Control Panel					
	AI1017	Fire Alarm Panel LOC	1		

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