



MODBUS- RTU COMMUNICATION V1.00.08.17



Introduction

The VFD can be controlled and monitored through the Modbus RTU protocol over an RS-485 connection. Modbus follows a simple client-server model. Server devices perform data read/write requests which are issued from a client device such as a PLC or building management system. Assignable addresses for server devices range from an address of 1 to a theoretical maximum of 247.

As a server device, the VFD communicates all data using only 16-bit holding registers. Addressing for the registers is partitioned into blocks that are multiples of 100 to group functionally similar data. If the drive is configured to accept commands via remote communications, it can be commanded to start, stop, run at a specified output frequency, target a setpoint in PID control, and reset faults.

Modbus addresses can be found in [Chapter 7 – Parameter Lists](#)

PARAMETER LISTS

Primary Parameter Group

Code	Modbus Address	Full Parameter Name	OLED Display Name	Parameter Setting Range	Adj. During Run
1	101	Application	Application	0- Basic 1- Supply Fan 2- Exhaust Fan 3- Cooling Tower 4- Surface/Booster Pump	No
2	102	Rated Motor Voltage	Motor Voltage	200/400V model: 200 to 480V; default 230V 400V model: 380 to 480V; default 460V	No
3	103	Rated Motor HP	Motor Horsepower	1 to 20HP	No
4	104	Rated Motor Current	Motor Current	0.5A to VFD Rating	No
5	105	Rated Motor RPM	Motor RPM	500 to 3600 RPM	No

6	106	Power Line Frequency	Line Frequency	0- 50 [Hz] 1- 60 [Hz]	No
7	107	Maximum Frequency	Max Frequency	30.00 to 240.00 [Hz]	No
8	108	Base Frequency	Base Frequency	30.00 to VFD Max Hz [Primary-07]	No
9	109	High Frequency Limit	High Frequency Limit	VFD Low Hz Limit [Primary-10] to VFD Max Hz [Primary-07]	No
10	110	Low Frequency Limit	Low Frequency Limit	0.50 to VFD High Hz Limit [Primary 10]	Yes
11	111	Carrier Frequency	Carrier Frequency	2.0 to 10.0 [kHz]	No
15	115	Power-On Run	Power-On Run	0 - Disable 1 - Enable	Yes
16	116	Power-On Run Delay	Power-On Run Delay	0 to 9999 [Sec]	Yes

Code	Modbus Address	Full Parameter Name	OLED Display Name	Parameter Setting Range	Adj. During Run
17	117	Run after Fault Reset	Fault Reset & Run	0 - Disable 1 - Enable	Yes
18	118	Torque Boost	Torque Boost	0 - Disable 1 - Enable	No
19	119	Torque Boost Level	Torque Boost Level	0.00 to 15.00	No
20	120	Start Mode	Start Mode	0 - Accelerate 1 - DC Start 2 - Flying Start	No
21	121	DC Start Level *	DC Start Level	0 - Low 1 - Medium 2 - High	No
22	122	HOA Type	HOA Type	0 - Keypad HOA 1 - Auto Only 2 - Keypad Off/Auto 3 - External HOA	No
23	123	Run Command in Hand	Hand Run Cmd	0 – Always Run 1 - Terminal 2 - 3-Wire 3 - Comms	No
24	124	Speed Reference in Hand	Hand Speed Ref	0 - Keypad 1 - 1A Analog Input 2 - 2A Analog Input 3 - Communications 4 - 3A Analog Input	No
30	130	Stop Mode	Stop Mode	0 - Decel 1 - Coast	No
31	131	DC Braking Start Frequency	DC Braking Start Frequency	1.0 to 60.0 [Hz]	No
32	132	DC Braking Current	DC Braking Current	1 to 100 [%]	No
33	133	DC Braking Time	DC Braking Time	1.0 to 60.0 [Sec]	No
34	134	Acceleration Time	Acceleration Time	1.0 to 6000.0 [Sec]	Yes
35	135	Deceleration Time	Deceleration Time	1.0 to 6000.0 [Sec]	Yes
36	136	V/F Control Mode	V/F Control	0 - Linear 1 - Squared	No
41	141	Run Command in Auto	Auto Run Cmd	0 – Always Run 1 - Terminal 2 - 3-Wire 3 - Comms	No

42	142	Speed Reference in Auto	Auto Speed Ref	0 - Keypad 1 - 1A Analog Input 2 - 2A Analog Input 3- Comms 4 - PID 5 - 3A Input	No
Code	Modbus Address	Full Parameter Name	OLED Display Name	Parameter Setting Range	Adj. During Run
43	143	Reference Loss Condition	Anlg Ref Loss	0 - Disabled 1 - Below 1/2 of Min 2 - Below Min	No
44	144	Ref. Loss Action	Anlg Ref Loss Act	0 - Fault 1 - Stop (uses selected stop mode) 2 - Hold Speed	No
45	145	Ref. Loss Delay	Anlg Ref Loss	0 to 20 [Sec]	No
46	146	PID Mode Select	PID Mode	0 - Direct 1 - Inverse	No
47	147	PID Setpoint Source	Setpoint Source	0 - Keypad 1 - 1A Analog Input 2 - 2A Analog Input 3 - Comms 4 - 3A Input	No
48	148	PID Feedback Source	Feedback Source	0 - 1A Input 1 - 2A Input 2 - 3A Input	No
49	149	PID Feedback Unit	Feedback Units	0 – PSI (0.1) 1 – GPM (0.1) 2 – inWC (0.01) 3 – CFM (0.1) 4 – inHg (0.1) 5 – Feet (0.1) 6 - °F (0.1) 7 – mBar (0.01) 8 – Pa (0.1) 9 – kPa (0.01) 10 – Meters (0.1) 11 - °C (0.1) 12 – Custom (0.1) 13 - % (0.1)	No
50	150	PID Feedback Max	Feedback Max	0.0 to 6000.0 [Unit]	No
52	152	PID Set-point value	Keypad Setpoint	0.0 to 95% of [PID F/B Max]	No
55	155	PID P-Gain	P Gain	0 to 999 [%]	Yes
56	156	PID I-Gain	I Gain	0.1 to 32.0 [Sec]	Yes
57	157	PID Out Ramp Time	PID Ramp Time	0.0 to 10.0 [Sec]	Yes

58	158	PID High Frequency Limit	PID High Freq Limit	[Prime-59] to [Prime-07] [Hz]	No
59	159	PID Low Frequency Limit	PID Low Freq Limit	0.00 to [Prime-58] [Hz]	Yes
60	160	Feedback Signal Loss	Fdbk Loss	0 - Disabled 1 - Below 1/2 of Min 2 - Below Min	No

Code	Modbus Address	Full Parameter Name	OLED Display Name	Parameter Setting Range	Adj. During Run
61	161	Feedback Loss Action	Fdbk Loss Action	0 - Fault 1 - Stop (uses selected stop mode) 2 - Hold Speed	No
62	162	Feedback Loss Delay	Fdbk Loss Delay	0 to 10 [Sec]	No

Primary Group Application Defaults

Code	OLED Display Name	Basic	Supply Fan	Exhaust Fan	Cooling Tower	Surface/Booster Pump
2	Motor Voltage	200V / 575V	200V / 575V	200V / 575V	200V / 575V	200V / 575V
3	Motor Horsepower	By VFD Rating & Line Voltage	By VFD Rating & Line Voltage	By VFD Rating & Line Voltage	By VFD Rating & Line Voltage	By VFD Rating & Line Voltage
4	Motor Current	By UL Table by Line Hz & Voltage and VFD Rating	By UL Table by Line Hz & Voltage and VFD Rating	By UL Table by Line Hz & Voltage and VFD Rating	By UL Table by Line Hz & Voltage and VFD Rating	By UL Table by Line Hz & Voltage and VFD Rating
5	Motor RPM	1750 [RPM]	1750 [RPM]	1750 [RPM]	1750 [RPM]	1750 [RPM]
6	Line Frequency	1- 60 [Hz]	1- 60 [Hz]	1- 60 [Hz]	1- 60 [Hz]	1- 60 [Hz]
7	Max Frequency	60.00 [Hz]	60.00 [Hz]	60.00 [Hz]	60.00 [Hz]	60.00 [Hz]
8	Base Frequency	60.00 [Hz]	60.00 [Hz]	60.00 [Hz]	60.00 [Hz]	60.00 [Hz]
9	High Frequency Limit	60.00 [Hz]	60.00 [Hz]	60.00 [Hz]	60.00 [Hz]	60.00 [Hz]
10	Low Frequency Limit	15.00 [Hz]	15.00 [Hz]	15.00 [Hz]	15.00 [Hz]	20.00 [Hz]
11	Carrier Frequency	2.5 [kHz]	2.5 [kHz]	2.5 [kHz]	2.5 [kHz]	2.5 [kHz]
15	Power-On Run	1- Enable	1- Enable	1- Enable	1- Enable	1- Enable
16	Power-On Run Delay	5 [Sec]	5 [Sec]	5 [Sec]	5 [Sec]	5 [Sec]

17	Fault Reset & Run	1- Enable	1- Enable	1- Enable	1- Enable	1- Enable
18	Torque Boost	0- Disable	0- Disable	0- Disable	0- Disable	0- Disable
19	Torque Boost Level	2.00	2.00	2.00	2.00	2.00
20	Start Mode	2- Flying start	2- Flying start	2- Flying start	2- Flying start	0- Accel
21	DC Start Level	0- Low	1- Medium	1- Medium	1- Medium	0- Low
22	HOA Type	0- Keypad HOA	0- Keypad HOA	0- Keypad HOA	0- Keypad HOA	0- Keypad HOA

Code	OLED Display Name	Basic	Supply Fan	Exhaust Fan	Cooling Tower	Surface/Booster Pump
23	Hand Run Cmd	0- HOA in Hand	0- HOA in Hand	0- HOA in Hand	0- HOA in Hand	0- HOA in Hand
24	Hand Speed Ref	0- Keypad	0- Keypad	0- Keypad	0- Keypad	0- Keypad
30	Stop Mode	1(Coast)	1(Coast)	1(Coast)	1(Coast)	1(Coast)
31	Stop Mode	10 [Hz]	10 [Hz]	10 [Hz]	10 [Hz]	10 [Hz]
32	DC Braking Start Frequency	50 [%]	50 [%]	50 [%]	50 [%]	50 [%]
33	DC Braking Current	5.0 [sec]	5.0 [sec]	5.0 [sec]	5.0 [sec]	5.0 [sec]
34	Acceleration Time	30.0 [sec]	30.0 [sec]	30.0 [sec]	30.0 [sec]	20.0 [sec]
35	Deceleration Time	40.0 [sec]	40.0 [sec]	40.0 [sec]	40.0 [sec]	30.0 [sec]
36	V/F Control	0 (Linear)	1 (Squared)	1 (Squared)	1 (Squared)	0 (Linear)
39	Speed-Search Voltage Gain	100%	100%	100%	100%	100%
40	Speed-Search Speed Offset	5.0 [Hz]	5.0 [Hz]	5.0 [Hz]	5.0 [Hz]	5.0 [Hz]
41	Auto Run Cmd	(1) Terminal	(1) Terminal	(1) Terminal	(1) Terminal	(1) Terminal
42	Auto Speed Ref	(1) 1A Input	(4) PID	(4) PID	(4) PID	(4) PID
43	Anlg Ref Loss	(0) Disabled	(1) Half of Min	(1) Half of Min	(1) Half of Min	(1) Half of Min
44	Anlg Ref Loss Act	(0) Fault	(1) Stop	(1) Stop	(2) Hold	(1) Stop
45	Anlg Ref Loss	1 [Sec]	1 [Sec]	1 [Sec]	1 [Sec]	1 [Sec]
46	PID Mode	(0) Direct	(0) Direct	(1) Inverse	(1) Inverse	(0) Direct
47	Setpoint Source	(0) Keypad	(0) Keypad	(0) Keypad	(0) Keypad	(0) Keypad
48	Feedback Source	(0) 1A Input	(0) 1A Input	(0) 1A Input	(0) 1A Input	(0) 1A Input
49	Feedback Units	(0) PSI	(2) inWC	(2) inWC	(6) °F	(0) PSI
50	Feedback Max	100.00 [PSI]	10.00 [inWC]	10.00 [inWC]	150.00 [°F]	100.00 [PSI]

52	Keypad Setpoint	60.00 [PSI]	1.00 [inWC]	1.00 [inWC]	78.00 [°F]	60.00 [PSI]
55	P Gain	30 [%]	10 [%]	10 [%]	10 [%]	30 [%]
56	I Gain	1.0 [sec]	1.0 [sec]	1.0 [sec]	1.0 [sec]	0.5 [sec]
57	PID Ramp Time	0.0 [sec]	0.0 [sec]	0.0 [sec]	0.0 [sec]	0.0 [sec]
58	PID High Freq Limit	60.00 [Hz]	60.00 [Hz]	60.00 [Hz]	60.00 [Hz]	60.00 [Hz]
59	PID Low Freq Limit	20.00 [Hz]	15.00 [Hz]	15.00 [Hz]	15.00 [Hz]	20.00 [Hz]
60	Fdbk Loss	(1) Half of Min	(1) Half of Min	(1) Half of Min	(1) Half of Min	(1) Half of Min
61	Fdbk Loss Action	(1) Stop	(1) Stop	(1) Stop	(2) Hold	(1) Stop
62	Fdbk Loss Delay	1 [Sec]	1 [Sec]	1 [Sec]	1 [Sec]	1 [Sec]

VFD Parameter Group

Code	Modbus Address	Full Parameter Name	OLED Display Name	Parameter Setting Range	Adj. During Run
4	204	Auto Bypass Selection	Auto Bypass	0 - Disabled 1 - On VFD Fault 2 - Bypass Comms Loss 3 - VFD Fault & Bypass Comms Loss	No
6	206	Damper	Damper Control	0 - Disabled 1 - Damper*	No
7	207	Damper	Damper Delay	0 to 6000 [Sec]	Yes
10	210	Skip Frequency 1 Selection	Skip Freq 1 Enable	0 - Disabled 1 - Enabled*	No
11	211	Skip Frequency 1 Low*	Skip Freq 1 Low	0.50 to [Skip-1 High Hz]	Yes
12	212	Skip Frequency 1 High*	Skip Freq 1 High	[Skip-1 Low Hz] to [VFD Max Hz]	Yes
13	213	Skip Frequency 2 Selection	Skip Freq 2 Enable	0 - Disabled 1 - Enabled	No
14	214	Skip Frequency 2 Low*	Skip Freq 2 Low	0.50 to [Skip-2 High Hz]	Yes
15	215	Skip Frequency 2 High*	Skip Freq 2 High	[Skip-2 Low Hz] to [VFD Max Hz]	Yes
16	216	Skip Frequency 3 Selection	Skip Freq 3 Enable	0 - Disabled 1 - Enabled	No
17	217	Skip Frequency 3 Low *	Skip Freq 3 Low	0.50 to [Skip-3 High Hz]	Yes
18	218	Skip Frequency 3 High *	Skip Freq 3 High	[Skip-3 Low Hz] to [VFD Max Hz]	Yes

19	219	Preset Frequency-A	Speed A	VFD Low Hz Limit to VFD Max Hz	Yes
20	220	Preset Frequency-B	Speed B	VFD Low Hz Limit to VFD Max Hz	Yes
21	221	Preset Frequency-AB	Speed AB	VFD Low Hz Limit to VFD Max Hz	Yes
22	222	Preset Setpoint-A	Setpoint A	0.00 to F/B Max Value*0.95 [Unit]	Yes
23	223	Preset Setpoint-B	Setpoint B	0.00 to F/B Max Value*0.95 [Unit]	Yes
24	224	Preset Setpoint-AB	Setpoint AB	0.00 to F/B Max Value*0.95 [Unit]	Yes

Code	Modbus Address	Full Parameter Name	OLED Display Name	Parameter Setting Range	Adj. During Run
39	239	Reset User Settings		0 - No 1 - Factory Defaults	No
40	240	Custom Param 1		0 - Output Frequency 1 - Motor Speed (RPM) 2 - Energy Usage 3 - Average Power 4 - Average Current 5 - Line A Current 6 - Line B Current 7 - Line C Current 8 - DC Bus Voltage 9 - Output Voltage 10 - HOA Mode 11 - IGBT Temp 12 - Ambient Temp 13 - Motor Run Time 14 - D1-SG Input 15 - D2-SG Input 16 - V1-V2 Input 17 - V3-V4 Input 18 - O1-O2 Output 19 - 1A mA Input 20 - 1A V Input 21 - 2A Input 22 - 2A mA Output 23 - 2A V Output	Yes
41	241	Custom Param 2		same as VFD-41	Yes

42	242	Custom Param 3		same as VFD-41	Yes
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VFD Group Application Defaults

Code	OLED Display Name	Basic	Supply Fan	Exhaust Fan	Cooling Tower	Surface/ Booster Pump
4	Auto Bypass	(0) Disabled	(0) Disabled	(0) Disabled	(0) Disabled	(0) Disabled
6	Damper Control	(0) Disabled	(0) Disabled	(0) Disabled	(0) Disabled	(0) Disabled
7	Damper Delay	120 [sec]	120 [sec]	120 [sec]	120 [sec]	120 [sec]
10	Skip Freq 1 Enable	(0) Disabled	(0) Disabled	(0) Disabled	(0) Disabled	(0) Disabled
11	Skip Freq 1 Low	23.00 [Hz]	23.00 [Hz]	23.00 [Hz]	23.00 [Hz]	23.00 [Hz]
12	Skip Freq 1 High	26.00 [Hz]	26.00 [Hz]	26.00 [Hz]	26.00 [Hz]	26.00 [Hz]
13	Skip Freq 2 Enable	(0) Disabled	(0) Disabled	(0) Disabled	(0) Disabled	(0) Disabled
14	Skip Freq 2 Low	33.00 [Hz]	33.00 [Hz]	33.00 [Hz]	33.00 [Hz]	33.00 [Hz]
15	Skip Freq 2 High	36.00 [Hz]	36.00 [Hz]	36.00 [Hz]	36.00 [Hz]	36.00 [Hz]
16	Skip Freq 3 Enable	(0) Disabled	(0) Disabled	(0) Disabled	(0) Disabled	(0) Disabled
17	Skip Freq 3 Low	43.00 [Hz]	43.00 [Hz]	43.00 [Hz]	43.00 [Hz]	43.00 [Hz]
18	Skip Freq 3 High	46.00 [Hz]	46.00 [Hz]	46.00 [Hz]	46.00 [Hz]	46.00 [Hz]
19	Speed A	30.00 [Hz]	30.00 [Hz]	30.00 [Hz]	30.00 [Hz]	30.00 [Hz]
20	Speed B	35.00 [Hz]	35.00 [Hz]	35.00 [Hz]	35.00 [Hz]	35.00 [Hz]
21	Speed AB	40.00 [Hz]	40.00 [Hz]	40.00 [Hz]	40.00 [Hz]	40.00 [Hz]
22	Setpoint A	50.0 [PSI]	1.10 [inWC]	1.10 [inWC]	75.5 [°F]	50.0 [PSI]
23	Setpoint B	55.0 [PSI]	1.20 [inWC]	1.20 [inWC]	76.5 [°F]	55.0 [PSI]
24	Setpoint AB	65.0 [PSI]	1.30 [inWC]	1.30 [inWC]	77.0 [°F]	65.0 [PSI]

I/O Terminals Parameter Group

Code	Modbus Address	Full Parameter Name	OLED Display Name	Parameter Setting Range	Adj. During Run
1	301	Dry Input 1 Function	D1-SG Function	0 - None 1 - Enable 2 - Fireman's Override 3 - Speed- A 4 - Speed- B 5 - Setpoint-A 6 - Setpoint-B 7 - Damper LSW 9 - External Trip 10 - Run Forward 13 - 3-Wire Start 14 - 3-Wire Stop 15 - HOA Auto 16 - HOA Hand 17 - Shutdown 18 - Fault Reset 19 - Bypass	No
2	302	Dry Input 1 Contact	D1-SG Input	0 - Normally Open 1 - Normally Closed	No
3	303	Dry Input 2 Function	D2-SG Function	0 - None 1 - Enable 2 - Fireman's Override 3 - Speed- A 4 - Speed- B 5 - Setpoint-A 6 - Setpoint-B 7 - Damper LSW 9 - External Trip 10 - Run Forward 13 - 3-Wire Start 14 - 3-Wire Stop 15 - HOA Auto 16 - HOA Hand 17 - Shutdown 18 - Fault Reset 19 - Bypass	No
4	304	Dry Input 2 Contact	D2-SG Input	0 - Normally Open 1 - Normally Closed	No

Code	Modbus Address	Full Parameter Name	OLED Display Name	Parameter Setting Range	Adj. During Run
5	305	Wet Input 1 Function	V1-V2 Function	0 - None 1 - Enable 2 - Fireman's Override 3 - Speed- A 4 - Speed- B 5 - Setpoint-A 6 - Setpoint-B 7 - Damper LSW 9 - External Trip 10 - Run Forward 13 - 3-Wire Start 14 - 3-Wire Stop 15 - HOA Auto 16 - HOA Hand 17 - Shutdown 18 - Fault Reset 19 - Bypass	No
6	306	Wet Input 1 Type	V1-V2 Input	0 - Active High 1 - Active Low	No
7	307	Wet Input 2 Function	V3-V4 Function	0 - None 1 - Enable 2 - Fireman's Override 3 - Speed- A 4 - Speed- B 5 - Setpoint-A 6 - Setpoint-B 7 - Damper LSW 9 - External Trip 10 - Run Forward 13 - 3-Wire Start 14 - 3-Wire Stop 15 - HOA Auto 16 - HOA Hand 17 - Shutdown 18 - Fault Reset 19 - Bypass	No
8	308	Wet Input 2 Type	V3-V4 Input	0 - Active High 1 - Active Low	No

Code	Modbus Address	Full Parameter Name	OLED Display Name	Parameter Setting Range	Adj. During Run
9	309	Relay Output Select	O1-O2 Function	0 - Fault 1 - Run 2 - Proof of Run	No
10	310	Relay Contact	O1-O2 Output	0 - Normally Open 1 - Normally Closed	No
14	314	1A mA Min Value	1A Input Min mA	0.00 to 20.00 [mA]	No
15	315	1A Min Hz	1A Min Hz	0.00 to [Prime-07] [Hz]	No
16	316	1A mA Max Value	1A Input Max mA	0.00 to 20.00 [mA]	No
17	317	1A Max Hz	1A Max Hz	0.00 to [Prime-07] [Hz]	No
18	318	1A Input Filtering Level	1A Input Filter	0 - Low 1 - Medium 2 - High	Yes
19	319	1A V Min Value	1A Input Min V	0.00 to 10.00 [V]	No
21	321	1A V Max Value	1A Input Max V	0.00 to 10.00 [V]	No
23	323	2A V Input Filtering Level	2A Input Filter	0 - Low 1 - Medium 2 - High	Yes
24	324	2A V Input Min Value	2A Input Filter	0.00 to 10.00 [V]	No
25	325	2A V Input Min Hz	2A Min Hz	0.00 to [Prime-07] [Hz]	No
26	326	2A V Input Max Value	2A Input Max V	0.00 to 10.00 [V]	No
27	327	2A V Input Max Hz	2A Max Hz	0.00 to [Prime-07] [Hz]	No
28	328	2A Output Selection	2A Function	0 - Output Frequency 1 - Output Current 2 - DC Bus Voltage	Yes
29	329	2A Output Scaling	2A Output Scaling	10 to 200 [%]	Yes
48	348	Option Board Enable	Option Board	0 - Disabled 1 - Enabled	No

Code	Modbus Address	Full Parameter Name	OLED Display Name	Parameter Setting Range	Adj. During Run
49	349	Dry Input 3 Function	D3-SG Function	0 - None 1 - Enable 2 - Fireman's Override 3 - Speed- A 4 - Speed- B 5 - Setpoint-A 6 - Setpoint-B 7 - Damper LSW 8 - Reserved 9 - External Trip 10 - Run Forward 11 - Reserved 12 - Reserved 13 - 3-Wire Start 14 - 3-Wire Stop 15 - HOA Auto 16 - HOA Hand 17 - Shutdown 18 - Fault Reset 19 - Bypass 20 - Reserved	
50	350	Dry Input 3 Contact	D3-SG Input	0 - Normally Open 1 - Normally Closed	
51	351	Dry Input 4 Function	D4-SG Function	0 - None 1 - Enable 2 - Fireman's Override 3 - Speed- A 4 - Speed- B 5 - Setpoint-A 6 - Setpoint-B 7 - Damper LSW 8 - Reserved 9 - External Trip 10 - Run Forward 11 - Reserved 12 - Reserved 13 - 3-Wire Start 14 - 3-Wire Stop 15 - HOA Auto 16 - HOA Hand 17 - Shutdown 18 - Fault Reset 19 - Bypass 20 - Reserved	

Code	Modbus Address	Full Parameter Name	OLED Display Name	Parameter Setting Range	Adj. During Run
52	352	Dry Input 4 Contact	D4-SG Input	0 - Normally Open 1 - Normally Closed	
53	353	Relay 3 Output Select	O3-O4-O5 Function	0 - Fault 1 - Run 2 - Proof of Run	Yes
64	364	3A mA Min Value	3A Input Min mA	0.00 to 20.00 [mA]	No
65	365	3A Min Hz	3A Min Hz	0.00 to [Prime-07] [Hz]	No
66	366	3A mA Max Value	3A Input Max mA	0.00 to 20.00 [mA]	No
67	367	3A Max Hz	3A Max Hz	0.00 to [Prime-07] [Hz]	No
68	368	3A Input Filtering Level	3A Input Filter	0 - Low 1 - Medium 2 - High	Yes

I/O Group Application Defaults

Code	OLED Display Name	Basic	Supply Fan	Exhaust Fan	Cooling Tower	Surface/Booster Pump
1	D1-SG Function	(10) Run FWD	(10) Run FWD	(10) Run FWD	(10) Run FWD	(10) Run FWD
2	D1-SG Input	(0) Normally Open	(0) Normally Open	(0) Normally Open	(0) Normally Open	(0) Normally Open
3	D2-SG Function	(0) None	(0) None	(0) None	(0) None	(0) None
4	D2-SG Input	(0) Normally Open	(0) Normally Open	(0) Normally Open	(0) Normally Open	(0) Normally Open
5	V1-V2 Function	(3) Speed-A	(3) Speed-A	(3) Speed-A	(3) Speed-A	(3) Speed-A
6	V1-V2 Input	(0) Active High	(0) Active High	(0) Active High	(0) Active High	(0) Active High
7	V3-V4 Function	(9) External Trip	(9) External Trip	(9) External Trip	(9) External Trip	(0) None
8	V3-V4 Input	(0) Active High	(0) Active High	(0) Active High	(0) Active High	(0) Active High
9	O1-O2 Function	(0) Fault	(0) Fault	(0) Fault	(0) Fault	(0) Fault
10	O1-O2 Output	(0) Normally Open	(0) Normally Open	(0) Normally Open	(0) Normally Open	(0) Normally Open
14	1A Input Min mA	4.00 [mA]	4.00 [mA]	4.00 [mA]	4.00 [mA]	4.00 [mA]
15	1A Min Hz	0.00 [Hz]	0.00 [Hz]	0.00 [Hz]	0.00 [Hz]	0.00 [Hz]
16	1A Input Max mA	20.00 [mA]	20.00 [mA]	20.00 [mA]	20.00 [mA]	20.00 [mA]
17	1A Max Hz	60.00 [Hz]	60.00 [Hz]	60.00 [Hz]	60.00 [Hz]	60.00 [Hz]
18	1A Input Filter	(1) Medium	(1) Medium	(1) Medium	(1) Medium	(1) Medium
19	1A Input Min V	0.00 [V]	0.00 [V]	0.00 [V]	0.00 [V]	0.00 [V]
21	1A Input Max V	10.00 [V]	10.00 [V]	10.00 [V]	10.00 [V]	10.00 [V]
23	2A Input Filter	(1) Medium	(1) Medium	(1) Medium	(1) Medium	(1) Medium
24	2A Input Filter	0.00 [V]	0.00 [V]	0.00 [V]	0.00 [V]	0.00 [V]
25	2A Min Hz	0.00 [Hz]	0.00 [Hz]	0.00 [Hz]	0.00 [Hz]	0.00 [Hz]
26	2A Input Max V	10.00 [V]	10.00 [V]	10.00 [V]	10.00 [V]	10.00 [V]
27	2A Max Hz	60.00 [Hz]	60.00 [Hz]	60.00 [Hz]	60.00 [Hz]	60.00 [Hz]
28	2A Function	(0) Out Frequency	(0) Out Frequency	(0) Out Frequency	(0) Out Frequency	(0) Out Frequency
29	2A Output Scaling	100 [%]	100 [%]	100 [%]	100 [%]	100 [%]
48	Option Board	0 - Disabled	1 - Disabled	2 - Disabled	3 - Disabled	4 - Disabled
49	D3-SG Function	(0) None	(0) None	(0) None	(0) None	(0) None
50	D3-SG Input	(0) Normally Open	(0) Normally Open	(0) Normally Open	(0) Normally Open	(0) Normally Open
51	D4-SG Function	(0) None	(0) None	(0) None	(0) None	(0) None

52	D4-SG Input	(0) Normally Open	(0) Normally Open	(0) Normally Open	(0) Normally Open	(0) Normally Open
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Code	OLED Display Name	Basic	Supply Fan	Exhaust Fan	Cooling Tower	Surface/Booster Pump
53	O3-O4-O5 Function	(0) Fault	(0) Fault	(0) Fault	(0) Fault	(0) Fault
64	3A Input Min mA	4.00 [mA]	4.00 [mA]	4.00 [mA]	4.00 [mA]	4.00 [mA]
65	3A Min Hz	0.00 [Hz]	0.00 [Hz]	0.00 [Hz]	0.00 [Hz]	0.00 [Hz]
66	3A Input Max mA	20.00 [mA]	20.00 [mA]	20.00 [mA]	20.00 [mA]	20.00 [mA]
67	3A Max Hz	60.00 [Hz]	60.00 [Hz]	60.00 [Hz]	60.00 [Hz]	60.00 [Hz]
68	3A Input Filter	(0) Low	(0) Low	(0) Low	(0) Low	(0) Low
31						
33						

Protection Parameter Group

Code	Modbus Address	Full Parameter Name	OLED Display Name	Parameter Setting Range	Adj. During Run
1	401	Pre-Heat Mode	Preheat Mode	0 - Disabled 1 - Low Heat 2 - Medium Heat 3 - High Heat	Yes
3	403	No Motor Trip Selection	No Motor Fault	0 - Disable 1 - Enable	No
4	404	Stall Prevention	Stall Prevention	0 - Disable 1 - Enable	No
5	405	Stall Level	Stall Level	30 to 200%	No
6	406	DC Trip Prevention	DC Trip Prevent	0 - Disabled 1 - Enabled	No
7	407	Motor Overload (MOL) Level Continuous	VFD MOL Continuous	50 to 135 [%]	No
8	408	VFD Motor Overload (MOL) Class	VFD MOL	0 - Class 5 1 - Class 6 (Pump) 2 - Class 10 3 - Class 20	No
9	409	Bypass Motor Overload (MOL) Class	Bypass MOL	0 - Class 5 1 - Class 6 (Pump) 2 - Class 10 3 - Class 20	No

12	412	Motor Overcurrent Level	Overcurrent Level	70 to 200 [%]	Yes
13	413	Motor OC Delay	Overcurrent Delay	0.1 to 5.0 [Sec]	Yes
38	438	Critical Faults Number of Auto Retries	Crit Fault Retries	0 to 10	Yes

Code	Modbus Address	Full Parameter Name	OLED Display Name	Parameter Setting Range	Adj. During Run
39	439	Critical Faults Retry Delay	Crit Fault Retry Delay	1 to 360 [Min]	Yes
40	440	Light Faults Number of Auto Retries	Light Fault Retries	0 to 10	Yes
41	441	Light Faults Retry Delay	Light Fault Retry Delay	1 to 360 [Min]	Yes

Protection Group Application Defaults

Code	OLED Display Name	Basic	Supply Fan	Exhaust Fan	Cooling Tower	Surface/Booster Pump
1	Preheat Mode	(0) Disabled	(0) Disabled	(0) Disabled	(0) Disabled	(0) Disabled
3	No Motor Fault	(1) Enable	(1) Enable	(1) Enable	(1) Enable	(1) Enable
4	Stall Prevention	(1) Enable	(1) Enable	(1) Enable	(1) Enable	(1) Enable
5	Stall Level	150%	150%	150%	150%	150%
6	DC Trip Prevent	(1) Enable	(1) Enable	(1) Enable	(1) Enable	(1) Enable
7	VFD MOL Continuous	100 [%]	100 [%]	100 [%]	100 [%]	100 [%]
8	VFD MOL	(2) 10	(2) 10	(2) 10	(2) 10	(2) 10
9	Bypass MOL	(2) 10	(2) 10	(2) 10	(2) 10	(2) 10
12	Overcurrent Level	200 [%]	200 [%]	200 [%]	200 [%]	200 [%]
13	Overcurrent Delay	0.1 [sec]	0.1 [sec]	0.1 [sec]	0.1 [sec]	0.1 [sec]
38	Critical Fault Retries	3	3	3	3	3
39	Critical Fault Retry Delay	3	3	3	3	3
40	Light Fault Retries	3	3	3	3	3
41	Light Fault Retry Delay	2	2	2	2	2

Communications Parameter Group

Code	Modbus Address	Full Parameter Name	OLED Display Name	Parameter Setting Range	Adj. During Run
1	501	Protocol	Protocol	0 - Modbus RTU 1 - Modbus TCP/IP 2 - BACnet MS/TP 3 - BACnet IP	Yes
3	503	Write Access	Write Access	0 - Disabled 1 - Enabled	Yes
4	504	Loss of Comms	Com Loss Action	0 - Fault 1 - Stop (uses selected stop mode) 2 - Hold Speed	Yes
5	505	Timeout	Com Loss Delay	0.1 to 120.0 [Sec]	Yes
6	506	Baudrate	RS-485 Baud	0 - 9600 1 - 19200 2 - 38400 3 - 57600 4 - 76800 5 - 115200	Yes
7	507	Parity/Stop Bits	Modbus RTU	0 - None, 2 Stop 1 - Even, 1 Stop 2 - Odd, 1 Stop 3 - None, 1 Stop	Yes
9	509	Modbus Device Address	Modbus RTU Address	1-247	Yes
10	N/A	BACnet MAC/ID	BACnet MS/TP MAC Address	0 to 127	Yes
11	N/A	BACnet Max Master	BACnet MS/TP Max Master	0 to 127	Yes
12	N/A	BACnet Device Instance	BACnet Device	0-4194303	Yes
27	527	Comms Run/Stop	N/A	0 - Stop 1 - Run	Yes
28	528	Comms Command Frequency	N/A	Min Freq Limit to High Freq Limit	Yes
29	529	Comms PID Setpoint	N/A	0.0 to 95% of [PID Feedback Max]	Yes
30	530	Comms Reset Fault	N/A	0 - None 1 - Reset	Yes
36	536	Bluetooth Enable	Bluetooth	0 - Disable 1 - Enable	Yes

Communications Group Application Defaults

Code	OLED Display Name	Basic	Supply Fan	Exhaust Fan	Cooling Tower	Surface/ Booster Pump
1	Protocol	(0) Modbus RTU	(0) Modbus RTU	(0) Modbus RTU	(0) Modbus RTU	(0) Modbus RTU
3	Write Access	(1) Enabled	(1) Enabled	(1) Enabled	(1) Enabled	(1) Enabled
4	Comms Loss Action	(2) Hold Speed	(2) Hold Speed	(2) Hold Speed	(2) Hold Speed	(1) Stop
5	Com Loss Delay	1.0 [sec]	1.0 [sec]	1.0 [sec]	1.0 [sec]	1.0 [sec]
6	RS-485 Baud	(1) 19200 bps	(1) 19200 bps	(1) 19200 bps	(1) 19200 bps	(1) 19200 bps
7	Modbus RTU	1 (Even, 1 Stop)	1 (Even, 1 Stop)	1 (Even, 1 Stop)	1 (Even, 1 Stop)	1 (Even, 1 Stop)
8	Response Delay	5 [mSec]	5 [mSec]	5 [mSec]	5 [mSec]	5 [mSec]
9	Modbus RTU Address	247	247	247	247	247
10	BACnet MS/TP MAC Address	1	1	1	1	1
11	BACnet MS/TP Max Master	127	127	127	127	127
12	BACnet Device Instance 1	2230000	2230000	2230000	2230000	2230000
	Instance 2					

View Information Parameter Group

Code	Modbus Address	Full Parameter Name	OLED Display Name	Parameter Setting Range	Adj. During Run
1	601	VFD Output Frequency	Output Frequency	0.00 to 240.00 [Hz]	N/A
2	602	Motor Speed	Motor Speed	0 to 3600 [RPM]	N/A
3	603	Wattmeter [1]	Wattmeter	0 to 4,294,967,295 [kWh]	N/A
	604	Wattmeter [2]			
5	605	Average Output Current	Average Current	0.0 to 6xVFD FLA [A]	N/A
6	606	Line U Current	Line U Current	0.0 to 6xVFD FLA [A]	N/A
7	607	Line V Current	Line V Current	0.0 to 6xVFD FLA [A]	N/A
8	608	Line W Current	Line W Current	0.0 to 6xVFD FLA [A]	N/A
9	609	DC Bus Voltage	DC Bus Voltage	0 to 1000 [V]	N/A
10	610	Output Voltage	Output Voltage	0 to 600 [V]	N/A
11	611	Output Status	Output Status	0 - VFD Off 1 - Accelerate 2 - Decelerate 3 - Steady 4 - Speed search 5 - Flying start 6 - DC Output 7 - Preheat 8 - DC trip prevention 9 - Stall prevention 10 - Bypass off 11 - Bypass run	N/A

12	612	System Status		System Status	0 - VFD stop 1 - VFD run 2 - VFD disabled 3 - VFD fault 4 - VFD shutdown 5 - VFD fireman's override 6 - VFD auto reset 8 - Power-on delay 12 - Signal loss 14 - PID run 15 - Open damper 18 - Bypass stop 19 - Bypass manual 20 - Bypass override 22 - Bypass auto on fault 23 - Bypass disabled 24 - Bypass fault 25 - Bypass shutdown 27 - Bypass auto on comms loss	N/A
Code	Modbus Address	Full Parameter Name	OLED Display Name	Parameter Setting Range		Adj. During Run

13	613	Fault	Fault	<ul style="list-style-type: none"> 0 - None 1 - Motor Overload (C) 2 - Motor Over Current (C) 3 - VFD Over Current (C) 4 - VFD Over Heat (C) 5 - VFD Short Circuit (C) 6 - Over Voltage (L) 7 - Under Voltage (L) 8 - Input Phase Open (L) 9 - Output Phase Open (L) 10 - No Motor (L) 11 - Incorrect Output Wiring 12 - Power Board Uncalibrated 13 - Ground Fault (L) 21 - Bypass Motor Overload 22 - Bypass Phase Unbalance 23 - Bypass Phase Loss 24 - Bypass Board Error 25 - Bypass Stall 26 - Bypass Max Time 27 - Bypass Ground Fault 28 - Bypass Communications Error 29 - Bypass Contactor 30 - Bypass Current At Power On 31 - Bypass No Motor Current 32 - Bypass Locked Rotor 33 - Bypass Unexpected Current 34 - Bypass No Motor Current 41 - Limit Switch (H) 42 - Damper Overload (L) 43 - Control Reserved 45 - External Trip (M) 46 - Power Board Error (M) 47 - Control Board Error (M) 48 - VFD Cooling Fan (L) 49 - Power Board Communications Error (M) 51 - BMS Communications Loss (A) 52 - Analog Signal Loss 53 - Transducer Signal Loss (A) 54 - EEPROM Error 55 - Calibration CRC Failed 56 - Bluetooth Key CRC Failed 57 - Invalid Firmware 	N/A
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Code	Modbus Address	Full Parameter Name	OLED Display Name	Parameter Setting Range	Adj. During Run
15	615	PID Feedback Value	PID Feedback	0.0 to 6000.0 [Unit]	N/A
17	617	Inverter temperature	IGBT Temp	0 to 160 /0-100 [°C]/ %	N/A
18	618	PCB temperature	Ambient Temp	0 to 160 [°C]	N/A
19	619	Power-On Time [1]	Power-On Time	0 to 4,294,967,295 [Sec]	N/A
	620	Power-On Time [2]			
21	621	Run time [1]	Motor Run Time	0 to 4,294,967,295 [Sec]	N/A
	622	Run time [2]			
23	623	D1-SG Status	D1-SG Input	0 - Open 1 - Closed	N/A
24	624	D2-SG Status	D2-SG Input	0 - Open 1 - Closed	N/A
25	625	V1-V2 Status	V1-V2 Input	0 - Deenergized 1 - Energized	N/A
26	626	V3-V4 Status	V3-V4 Input	0 - Deenergized 1 - Energized	N/A
27	627	O1-O2 Status	O1-O2 Output	0 - Open 1 - Closed	N/A
28	628	HOA Status	HOA Mode	0 - Off 1 - Hand 2 - Auto 3 - Bluetooth	N/A
29	629	Bypass Smart Start	N/A	0 - Smart Start Disabled 1 - Smart Start Enabled	No
31	631	1A mA Input	N/A	N/A (Read only)	N/A
32	632	1A V Input	1A Input	0.00 to 24.00	N/A
34	634	2A V Input	2A Input	0.00 to 10.00	N/A
35	635	2A mA Output	N/A	.00 to 20.00	N/A
36	636	2A V Output	N/A	0.00 to 10.00	N/A
37	637	Power	Average Power	Varies depending on VFD size [kW]	N/A
39	639	Target Frequency	Target Frequency	Min Freq Limit to High Freq Limit [Hz]	N/A
40	640	Run Command Source	Run Command	0 - None 1 - Run 2 -Terminals 3 - 3 Wire 4 - Communication 5 - Mobile	N/A

Code	Modbus Address	Full Parameter Name	OLED Display Name	Parameter Setting Range	Adj. During Run
41	641	Speed Reference Source	Speed Reference	0 - None 1 - Keypad 2 - Analog 1A 3 - Analog 2A 4 - Communication 5 - Mobile 6 - PID	N/A
46	646	VFD Cooling Fan RPM	Cooling Fan	0-7200 RPM	Yes
47	647	1A Type	N/A	0 - 0-10 V Input 1 - 4-20mA Input	N/A
48	648	2A Type	N/A	0 - 0-10 V Input 1 - 0-10 V Output 2 - 4-20mA Output	N/A
49	649	D3-SG Status	D3-SG Input	0 - Open 1 - Closed	N/A
50	650	D4-SG Status	D4-SG Input	0 - Open 1 - Closed	N/A
51	651	O3-O4 Status	O3-O4 Output	0 - Open 1 - Closed	N/A
52	652	O4-O5 Status	O4-O5 Output	0 - Open 1 - Closed	N/A
53	653	3A mA Input	3A Input	N/A (Read only)	N/A
54	654	Bluetooth Error	Bluetooth Error	0 - None 1 - HW Comms Fail 2 - No "Adv Off" Rsp 3 - No "Cfg" Response 4 - No "Cfg Val" Rsp 5 - No "Write" Rsp 6 - No "Adv On" Rsp 7 - No "LNAME" Rsp 8 - No "SNAME" Rsp 9 - No "Disconnect" Rsp 10 - No "Satus Ok" Rsp 11 - No "Version" Rsp 12 - No "Transparent" Rsp 13 - No "Tx Comp" Rsp 14 - Unexpected Reset 15 - Unexpected Element 16 - Invalid Firmware 17 - No "Exit Trans" Rsp 18 - Procedure Overrun 19 - Not In Trans Mode 20 - No "LBD" Response 21 - No "DCN" Response	N/A

				22 - FW Upgrade Failure	
100	N/A	Bluetooth Key	Bluetooth Key		Yes

Code	Modbus Address	Full Parameter Name	OLED Display Name	Parameter Setting Range	Adj. During Run
116	N/A	Bluetooth MAC ID	Bluetooth MAC ID		Yes
128	N/A	Bluetooth Name	Bluetooth Name		Yes

Fault Codes

Code	Full Parameter Name	OLED Display Name	Parameter Setting Range	Adj. During Run
1	Fault	Fault	0 - None 1 - Motor Overload (C) 2 - Motor Over Current (C) 4 - VFD Over Heat (C) 8 - Input Phase Open (L) 9 - Output Phase Open (L) 10 - No Motor (L) 11 - Incorrect Output Wiring 12 - Power Board Uncalibrated 13 - Ground Fault (L) 21 - Bypass Motor Overload (L) 26 - Bypass Max Time (L) 27 - Bypass Ground Fault (L) 28 - Bypass Communications Error 29 - Bypass Contactor (L) 30 - Bypass Current at Power On (L) 31 - Bypass No Motor Current (L) 33 - Bypass Unexpected Current (L) 41 - Limit Switch 42 - Damper Overload (L) 43 - Control Reserved 44 - No Flow (L) 45 - External Trip (M) 47 - Control Board Error (M) 48 - VFD Cooling Fan (L) 50 - Overpressure (A) 51 - BMS Communications Loss (A) 52 - Analog Signal Loss 53 - Transducer Signal Loss (A)	N/A

			54 - EEPROM Fail 55 - Calibration CRC Failed 56 - Bluetooth Key CRC Failed	
4	Line U Current	Line U Current	0.0 to 6xVFD FLA [A]	N/A
5	Line V Current	Line V Current	0.0 to 6xVFD FLA [A]	N/A
Code	Full Parameter Name	OLED Display Name	Parameter Setting Range	Adj. During Run
6	Line W Current	Line W Current	0.0 to 6xVFD FLA [A]	N/A
7	DC Bus Voltage 1	DC Bus Voltage 1	0 to 1000 [V]	N/A
8	DC Bus Voltage 2	DC Bus Voltage 2	0 to 1000 [V]	N/A
9	Target Frequency	Target Frequency	0.00 to 240.00 [Hz]	N/A
10	Output Frequency	Output Frequency	0.00 to 240.00 [Hz]	N/A
12	System Status	System Status	0 - VFD stop 1 - VFD run 2 - VFD disabled 3 - VFD fault	N/A

			4 - VFD shutdown 5 - VFD fireman's override 6 - VFD auto reset 8 - Power-on delay 12 - Signal loss 14 - PID run 15 - Open damper 18 - Bypass stop 19 - Bypass manual 20 - Bypass override 22 - Bypass auto on fault 23 - Bypass disabled 24 - Bypass fault 25 - Bypass shutdown 27 - Bypass auto on comms loss	
11	Output Status	Output Status	0 - VFD Off 1 - Accelerate 2 - Decelerate 3 - Steady 4 - Speed search 5 - Flying start 6 - DC brake 7 - Preheat 8 - DC trip prevention 9 - Stall prevention 10 - Bypass off 11 - Bypass run	N/A
14	VFD Input Terminals	I/O Terminals	0x00 to 0xFF	N/A
15	IGBT Temperature	IGBT Temp	0 to 160 [°C]	N/A
16	PCB temperature	Ambient Temp	0 to 160 [°C]	N/A
33	Date	Date		N/A
34	Time	Time		N/A

Administration

Code	Modbus Address	Full Parameter Name	OLED Display Name	Parameter Setting Range	Adj. During Run
1	1101	Reset Motor Run Time	Motor Run Time	0 - No 1 - Yes	No
2	1102	Reset Wattmeter	Wattmeter	0 - No 1 - Yes	Yes
4	1104	Product Type	Product Type	0 - VFD 1 - VFD-Bypass	No

5	1105	VFD Model	VFD Model	0 - QLNK-003-DV 1 - QLNK-005-DV 2 - QLNK-009-DV 3 - QLNK-012-DV 4 - QLNK-017-DV 5 - QLNK-024-DV 6 - QLNK-028-DV 7 - QLNK-038-DV 8 - QLNK-045-DV 9 - QLNK-059-DV 10 - QLNK-065-DV 11 - QLNK-096-DV 12 - QLNK-124-DV 13 - QLNK-156-DV 14 - QLNK-003-D6 15 - QLNK-006-D6 16 - QLNK-011-D6 17 - QLNK-017-D6 18 - QLNK-032-D6 19 - QLNK-040-D6 20 - QLNK-052-D6 21 - QLNK-077-D6 22 - QLNK-099-D6 23 - QLNK-125-D6 24 - Invalid	No
7	1107	Contactor Model	Contractor Model	0 - NONE 1 - MRC - 9 2 - MRC - 12 3 - MRC - 18 4 - MRC - 22 5 - MRC - 32 6 - MRC - 40 7 - MRC - 50 8 - MRC - 65 9 - MRC - 75 10 - MRC - 85 11 - MRC - 100 12 - MRC - 130 13 - MRC - 150	No

Code	Modbus Address	Full Parameter Name	OLED Display Name	Parameter Setting Range	Adj. During Run
8	1108	Product Package SW Version	Product Package	Software versions use the format xx.xx.xxy, where xx is a number	No

	1109	Product Package SW Version	Product Package	from 0-99 and y is a letter representing the release variant.	
10	1110	Power CPU SW Version	Power Board	See Product SW Version	No
	1111	Power CPU SW Version			
12	1112	Power CPU Bootloader SW Version	Power Bootloader	See Product SW Version	No
	1113	Power CPU Bootloader SW Version			
14	1114	Control CPU SW Version		See Product SW Version	No
	1115	Control CPU SW Version			
16	1116	Control CPU Bootloader SW Version	Control Bootloader	See Product SW Version	No
	1117	Control CPU Bootloader SW Version			
18	1118	Bypass CPU SW Version	Bypass Board	See Product SW Version	No
	1119	Bypass CPU SW Version			
20	1120	Bypass CPU Bootloader SW Version		See Product SW Version	No
	1121	Bypass CPU Bootloader SW Version			
22	1122	Option CPU SW Version*	Option Board	See Product SW Version	No
	1123	Option CPU SW Version*			

Code	Modbus Address	Full Parameter Name	OLED Display Name	Parameter Setting Range	Adj. During
24	1124	Bluetooth CPU SW Version	Bluetooth Module	See Product SW Version	No
25	1125	Bluetooth CPU SW Version			
26	1126	Power CPU HW Version		See Product SW Version	No
	1127	Power CPU HW Version			
30	1130	Date/Time	Date	Date and time is formatted using the epoch time. This is the total number of seconds elapsed since 12:00 AM, January 1st, 1970	Yes
	1131	Date/Time	Time		
32	1132	Set Date/Time			Yes
	1133	Set Date/Time			
35	1135	Serial Number	Serial Number	0 - 99,999,999	No
	1136	Serial Number			
39	1139	Tag Name[1]		Text	Yes
	1140	Tag Name[2]			
	1141	Tag Name[3]			
	1142	Tag Name[4]			
	1143	Tag Name[5]			
	1144	Tag Name[6]			
	1145	Tag Name[7]			
	1146	Tag Name[8]			
	1147	Tag Name[9]			
	1148	Tag Name[10]			
	1149	Tag Name[11]			
	1150	Tag Name[12]			
	1151	Tag Name[13]			
	1152	Tag Name[14]			
	1153	Tag Name[15]			
	1154	Tag Name[16]			
40	1155	Option Board Model		0 - None 1 - I/O Expansion	No