Infinitum

Infinitum Aircore EC+ Parameters

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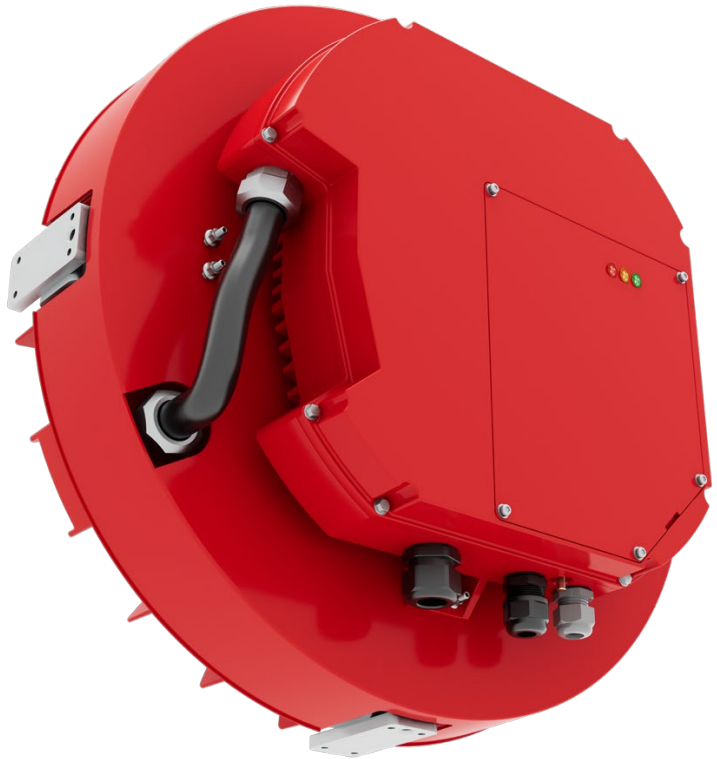

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Notes:

All registers are Holding Registers. These registers are the most universal 16-bit register, may be read or written, and may be used for a variety of things including inputs, outputs, configuration data, or any requirement for "holding" data. Some are readable/writeable and some are read-only, and some are write-only. Each register described in this document explains their R/W functionality.

The “Type” descriptors are explained at the end of this document but follows these examples. “Unsigned 0DP” is an unsigned 16-bit number with no characters past decimal point. It has a minimum value of 0 and a maximum value of 65536. “Signed 0DP” is a signed 16-bit number with no characters past the decimal point. It has a minimum value of -32768 and a maximum value of 32768. “Bit Field 1” means the register is set like a bit field 1 with input Integer 0 (false/off/disable) or 1 (true/on/enable).

This version applies to applicable 575VAC and 415/460VAC Aircore EC+ models

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2

Section 10: Motor

1001	Run/Stop Command	Operation command to motor	0 = Stop 1 = Start	Bit Field 1	Read/ Write	None	0=Stop	x	x	x	x
1002	Direction Command	Direction command only when motor stopped. Shaft rotation direction viewed from drive end of shaft	0 = CCW 1 = CW	Bit Field 1	Read/ Write	None	0=CCW	x	x	x	x
1003	Speed Command	Speed command to motor in rpm. Values cannot exceed those in Register # 1101 through 1102	Integer between Speed User Minimum and Speed User Maximum	Unsigned 0DP	Read/ Write	RPM	100	x	x	x	x

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
Section 11: Operating Limits											
1101	Speed User Minimum	Configurable speed must be greater than Register # 1114	Integer between Model Type Speed Absolute Minimum and Model Type Speed Absolute Maximum	Unsigned 0DP	Read/ Write	RPM	100	x	x	x	x
1102	Speed User Maximum	Configurable speed must be less than Register # 1115	Integer between Model Type Speed Absolute Minimum and Model Type Speed Absolute Maximum	Unsigned 0DP	Read/ Write	RPM	Motor Rated Speed	x	x	x	x
1105	Acceleration Ramp Duration	Duration of ramp time acceleration in seconds. Must be less than Register # 1112	Number between 1 & 180	Unsigned 0DP	Read/ Write	Seconds	30	x	x	x	x
1106	Deceleration Ramp Duration	Duration of ramp time deceleration in seconds. Must be less than Register # 1113	Number between 1 & 180	Unsigned 0DP	Read/ Write	Seconds	60	x	x	x	x
1107 (See notes)	Skip Speed 1	Avoids operating at specified rpm. Bypassed by range defined in Register # 1110	None	Unsigned 0DP	Read/ Write	RPM	0	x	x		

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
1108 (See notes)	Skip Speed 2	Avoids operating at specified rpm. Bypassed by range defined in Register # 1110	None	Unsigned 0DP	Read/ Write	RPM	0	x	x		
1109 (See notes)	Skip Speed 3	Avoids operating at specified rpm. Bypassed by range defined in Register # 1110	None	Unsigned 0DP	Read/ Write	RPM	0	x	x		
1110 (See notes)	Skip Speed Bandwidth	Specifies bandwidth for speed ranges to be avoided in Register #s 1108 through 1110	0 = 30 RPM, 1 = 60 RPM 2 = 90 RPM	Unsigned 0DP	Read/ Write	RPM	0	x	x		
1107 (See notes)	Skip Speed 1 min	Avoids operating at specified rpm. Minimum value of Skip Speed 1	Number between Motor 100 RPM and User Max RPM	Unsigned 0DP	Read/ Write	RPM	0			x	x
1108 (See notes)	Skip Speed 1 max	Avoids operating at specified rpm. Maximum value of Skip Speed 1	Number between Motor 100 RPM and User Max RPM	Unsigned 0DP	Read/ Write	RPM	0			x	x
1109 (See notes)	Skip Speed 2 min	Avoids operating at specified rpm. Minimum value of Skip Speed 2	Number between Motor 100 RPM and User Max RPM	Unsigned 0DP	Read/ Write	RPM	0			x	x

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
1110 (See notes)	Skip Speed 2 max	Avoids operating at specified rpm. Maximum value of Skip Speed 2	Number between Motor 100 RPM and User Max RPM	Unsigned 0DP	Read/ Write	RPM	0			x	x
1111	Direction Allowed	Fixes rotation of motor to specified direction or enables directional control.	0 = Allow CCW/CW 1 = Fixed CCW 2 = Fixed CW	Enumerated	Read/ Write	None	0 = Allow CCW/CW	x	x	x	x
1112	Maximum Accel Allowed	Manufacturers maximum acceleration rate allowed in rpm. Configured at factory	None	Unsigned 0DP	Read	RPM/Sec	500	x	x	x	x
1113	Maximum Deceleration Allowed	Manufacturers maximum deceleration rate allowed in rpm. Configured at factory	None	Unsigned 0DP	Read	RPM/Sec	500	x	x	x	x
1114	Motor Type Speed Minimum	Motor Type minimum speed for the motor configured at the factory.	None	Unsigned 0DP	Read	RPM/Sec	100	x	x	x	x
1115	Motor Type Speed Maximum	Motor Type maximum speed for the motor configured at the factory.	None	Unsigned 0DP	Read	RPM/Sec	Motor Dependent	x	x	x	x
1116	Load Inertia	Inertia modifier to change start actions	Number > 0	Unsigned 0DP	Write		0			x	x

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
Section 12: Operation Type											
1201	Control Mode	Select source for control signals: Register #s 1202 through 1205 must be selected for I/O terminals use Register #s 1202 through 1205 must be overridden to allow Modbus use	0 = I/O Terminals (Analog, Digital, Modbus) 1 = Modbus Interface (TCP or RTU) 2 = GUI override	Enumerated	Read/ Write	None	1 = Modbus Interface (either TCP or RTU)	x	x	x	x
1202	Speed Input Source	Selects speed input source input commands. Digital input selection allows desired constant speed settings in Register #s 2201 through 2204	0 = Modbus 1 = Analog 2 = DI1 & DI2 3 = DI2 & DI3 4 = DI3 & DI4	Enumerated	Read/ Write	None	0 = Modbus	x	x	x	x
1203	Start/Stop Input Source	Selects source for Start and Stop Commands. Digital input selection used in Register # 1202 allows Modbus use.	0 = Modbus 1 = DI1 2 = DI2 3 = DI3 4 = DI4 5 = AI1	Enumerated	Read/ Write	None	0 = Modbus	x	x	x	x

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
1204	Direction Input Source	Selects source for direction commands. Digital input selection in Register #s 1202 and 1203 allows Modbus use.	0 = Modbus 1 = DI1 2 = DI2 3 = DI3 4 = DI4	Enumerated	Read/ Write	None	0 = Modbus	x	x	x	x
1205	Clear Fault Input Source	Selects source for fault reset commands. Digital input selection in Register #s 1202 through 1204 allows Modbus use.	0 = Modbus 1 = DI1 2 = DI2 3 = DI3 4 = DI4	Enumerated	Read/ Write	None	0 = Modbus	x	x	x	x
1210	Speed Override Input Source	Source to use to trigger Override condition	0 = Modbus 1 = DI1 2 = DI2 3 = DI3 4 = DI4 6 = DI1and start	Enumerated	Read/ Write	None	0=Modbus			x	x

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
Section 13: Fault Reset											
1301	Number of Attempts	Defines number of automatic fault reset attempts. Not all faults can be reset automatically If drive exceeds set number it must be reset from source selected in Register # 1205	0 = Stop on fault 1 through 10 = number of restart attempts per fault 99 = Keep trying to restart	Unsigned 0DP	Read/ Write	Attempts	10	x	x	x	x
1302	Reset Delay	Defines time between successive automatic reset attempts	0.0 = Immediately reset decimal between 0.0-120.0 = Time in seconds, 0.5 second increments	Unsigned 1DP	Read/ Write	½ Seconds	20 = 10 seconds	x	x	x	x

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
Section 20: Terminal Settings (AI)											
2001	AI1 Function	Select function for Analog Input AI1.	0 = Speed control	Enumerated	Read/ Write	None	0 =Speed Control	x	x	x	x
2002	AI1 Minimum Setting	Defines minimum percent value corresponding to minimum mA(V) signal for analog input AI1: 0 = 0 to 100% (0 to 20 mA) 20 = 20 to 100% (4 to 20 mA)	Enter number between 200 & 1000 Must be less than Register # 2003	Unsigned 1DP	Read/ Write	%	200=20%	x	x	x	x
2003	AI1 Maximum Setting	Defines maximum percent value corresponding to V(mA) signal for analog input AI1	Enter number between 200 & 1000 Must be greater than Register # 2002	Unsigned 1DP	Read/ Write	%	1000=100 %	x	x	x	x
2006	AI1 Type Selection	Selects input type for AI1	0 = Voltage 1= Current	Enumerated	Read/ Write	None	0 = Voltage	x	x	x	x
2010	AI1 Open Max	Upper bound for Analog failover voltage	0 to 100%	Unsigned 0DP	Read/ Write	%	0			x	x
2011	AI1 Open Speed	Analog Failover speed	100 to User Max RPM	Unsigned 0DP	Read/	RPM	0			x	x

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
					Write						
2012	AI1 Stop/Override Min	Lower range setting for Analog stop voltage	0 to 100%	Unsigned 0DP	Read/ Write	%	0			x	x
2013	AI1 Stop/Override Max	Upper range setting for Analog stop voltage	0 to 100%	Unsigned 0DP	Read/ Write	%	0			x	x
2014	AI1 Fail Over Stop	Response to loss of Analog signal below AI1 Open Max (2010)	0 = Go to Fail Over Speed 1 = Stop Motor on analog Fail Over	Enumerated	Read/ Write		0				x
2015	AI1 Fail Over Timeout	Time in seconds to detect loss of Analog signal if "Parameter 2011 set at or above 100 RPM" and AI1 Open MAX set above 0.0%	0 - 120 (Sec)	Unsigned 0DP	Read/ Write	Seconds	30				x

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
Section 21: Terminal Settings (Digital In)											
2101	DI1 Function	Indicates behavior assigned to DI1 respective to input parameters for Register #s 1202 through 1205.	0 = None 1 = Run 2 = Direction 3 = Clear Fault 4 = Constant Speed 6 = Speed Override 7 = Speed Override and Start	Enumerated	Read	None	0=None	x	x	x	x
2102	DI2 Function	Indicates behavior assigned to DI1 respective to input parameters for Register #s 1202 through 1205.	0 = None 1 = Run 2 = Direction 3 = Clear Fault 4 = Constant Speed 6 = Speed Override	Enumerated	Read	None	None	x	x	x	x
2103	DI3 Function	Indicates behavior assigned to DI1 respective to input parameters for Register #s 1202 through 1205.	0 = None 1 = Run 2 = Direction 3 = Clear Fault 4 = Constant Speed 6 = Speed Override	Enumerated	Read	None	None	x	x	x	x
2104	DI4 Function	Indicates behavior assigned to DI1 respective to input parameters for Register #s 1202 through 1205.	0 = None 1 = Run 2 = Direction 3 = Clear Fault 4 = Constant Speed 6 = Speed Override	Enumerated	Read	None	None	x	x	x	x

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
Section 22: Terminal Settings (Constant Speed)											
2201	Constant Speed 1	Speed motor operates when corresponding combination of digital inputs are activated. Speed must be within parameters for Register #s 1101 through 1102	Number between Speed User Minimum and Speed User Maximum	Unsigned 0DP	Read/ Write	RPM	100	x	x	x	x
2202	Constant Speed 2	Speed motor operates when corresponding combination of digital inputs are activated. Speed must be within parameters for Register #s 1101 through 1102	Number between Speed User Minimum and Speed User Maximum	Unsigned 0DP	Read/ Write	RPM	100	x	x	x	x

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
2203	Constant Speed 3	Speed motor operates when corresponding combination of digital inputs are activated. Speed must be within parameters for Register #s 1101 through 1102	Number between Speed User Minimum and Speed User Maximum	Unsigned 0DP	Read/ Write	RPM	100	x	x	x	x
2204	Constant Speed 4	Speed motor operates when corresponding combination of digital inputs are activated. Speed must be within parameters for Register #s 1101 through 1102	Number between Speed User Minimum and Speed User Maximum	Unsigned 0DP	Read/ Write	RPM	100	x	x	x	x
2205	Override Speed	Speed to use in Override condition	Number between Speed User Minimum and Speed User Maximum	Unsigned 0DP	Read/ Write	RPM	100			x	x

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
Section 23: Terminal Settings (Analog Out)											
2301	AO1 Function	Connects motor signal to analog output AO1	0 = Speed 1 = Torque 2 = Power 3 = Current 4 = 10 V (for potentiometer)	Enumerated	Read/ Write	None	4 = 10 V (for potentiometer)	x	x	x	x
2305	AO1 Type	Selects output signal type	0 = Voltage 1= Current	Bit Field 1	None	None	0 = Voltage	x	x	x	x
Section 24: Terminal Settings (Digital Out)											
2401	DO1 Function	Selects motor status indicated by corresponding output	0 = None 1 = Active 2 = Fault 3 = At Range	Enumerated	Read/ Write	None	1 = Active	x	x	x	x
2402	DO2 Function	Selects motor status indicated by corresponding output	0 = None 1 = Active 2 = Fault 3 = At Range	Enumerated	Read/ Write	None	2 = Fault	x	x	x	x

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
Section 30: Monitor (Electrical)											
3001	DC Bus Voltage	DC Bus Voltage (V)	None	Unsigned 1DP	Read	Volts (V)	None	x			
3004	Average RMS Current	Average RMS motor phase current (A)	None	Unsigned 2DP	Read	Amps (A)	None	x			
3005	Input RMS Current	Estimated input RMS current to the VFD/Motor system (Amps)	None	Unsigned 2DP	Read	Amps (A)	None				x
3006	Input RMS Voltage	Estimated input RMS voltage to the VFD/Motor system (VAC)	None	Unsigned 1DP	Read	Volts (V)	None				x

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
Section 31: Monitor (Environmental)											
3101	Stator RTD	Displays temperature value from associated sensor. Defined in Register # 3151	None	Signed 0DP	Read	°C	None	x			
3102	Stator Average	Displays temperature value from associated sensor. Defined in Register # 3152	None	Signed 0DP	Read	°C	None		x	x	x
3103	Heatsink Temp	Displays temperature value from associated sensor. Defined in Register # 3153	None	Signed 0DP	Read	°C	None		x	x	x
3104	Stator Therm 1 temp	Displays temperature value from associated sensor. Defined in Register # 3154	None	Signed 0DP	Read	°C	None		x	x	x
3105	INV board temp	Displays temperature value from associated sensor. Defined in Register # 3155	None	Signed 0DP	Read	°C	None	x	x	x	x
3106	Heatsink Temp	Displays temperature value from associated	None	Signed 0DP	Read	°C	None	x			

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
		sensor. Defined in Register # 3156									
3107	Stator Therm 2 Temp	Displays temperature value from associated sensor. Defined in Register # 3157	None	Signed 0DP	Read	°C	None		x		
3114	CIM Board Temp	Displays temperature value from associated sensor. Defined in Register # 3164	None	Signed 0DP	Read	°C	None	x	x	x	x
3151	Stator RTD Temp	Factory set label value measured in Register # 3101	None	Enumerated	Read	None	1=Stator RTD Temp	x			
3152	Temp Label 2	Factory set label value measured in Register # 3102	None	Enumerated	Read	None	2=Stator Average Temp		x	x	x
3153	Temp Label 3	Factory set label value measured in Register # 3103	None	Enumerated	Read	None	10=Heat Sink Temp		x	x	x
3154	Temp Label 4	Factory set label value measured in Register # 3104	None	Enumerated	Read	None	3=Stator Therm 1 Temp		x	x	x
3155	Temp Label 5	Factory set label value measured in Register # 3105	None	Enumerated	Read	None	9=INV Board Temp	x			

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
3156	Temp Label 6	Factory set label value measured in Register # 3106	None	Enumerated	Read	None		x			
3157	Temp Label 7	Factory set label value measured in Register # 3107	None	Enumerated	Read	None	4=Stator Therm 2 Temp		x	x	x
3164	Temp Label 14	Factory set label value measured in Register # 3114	None	Enumerated	Read	None	CIM Board Temp	x	x	x	x
Section 32: Monitor (Performance)											
3201	Output Torque	Indication of output torque calculated by drive	None	Unsigned 2DP	Read	Nm	None	x			x
3202	Output Power	Indication of output power calculated by drive	None	Unsigned 0DP	Read	Watts (W)	None	x			x
Section 33: Monitor (Operating)											
3301	Run/Stop Actual	Displays motor Run/Stop status	None	Bit Field 1	Read	Running or Stopped	None	x	x	x	x
3302	Direction Actual	Displays direction of motor rotation	None	Bit Field 1	Read	CW or CCW	None	x	x	x	x

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
3303	Speed Actual	Displays measured speed of motor	None	Unsigned 0DP	Read	RPM	None	x	x	x	x
Section 35: Monitor (Analog In)											
3501	AIN1 Value	Displays input signal to AI1	None	Unsigned 1DP	Read	%	None	x	x	x	x
Section 36: Monitor (Analog Out)											
3601	AOUT1 Value	Displays signal out to AO1	None	Unsigned 1DP	Read	%	None	x	x	x	x
Section 37: Monitor (DI)											
3701	DIN1 Value	Displays status of DI1	None	Bit Field 1	Read	None	None	x	x	x	x
3702	DIN2 Value	Displays status of DI2	None	Bit Field 1	Read	None	None	x	x	x	x
3703	DIN3 Value	Displays status of DI3	None	Bit Field 1	Read	None	None	x	x	x	x
3704	DIN4 Value	Displays status of DI4	None	Bit Field 1	Read	None	None	x	x	x	x

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
Section 38: Monitor (Digital Out)											
3801	DOUT1 Value	Displays status of DO1	None	Bit Field 1	Read	None	None	x	x	x	x
3802	DOUT2 Value	Displays status of DO2	None	Bit Field 1	Read	None	None	x	x	x	x
Section 40: Faults											
4001	Active Faults	Monitors for active Faults	None	Bit Field 1	Read	None	None	x	x	x	x
4003	Clear Faults	Write "1" to this register to clear Faults	None	Bit Field 1	Write	None	None	x	x	x	x
4011	Fault Word	Displays encoded Fault word	None	Bit Fault 0 FAULT_HW 1 FAULT_Overcurrent 2 FAULT_Overvoltage 3 FAULT_Undervoltage 4 FAULT_Overtemp 5 FAULT_GateDriver	Read	None	None	x	x	x	x

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
				6 FAULT_GateDriverUV 8 FAULT_UARTCommError 11 FAULT_MotorParameters 12 FAULT_Motor_Disable 13 Fault_Inverter_Flash 14 Fault_Inverter_Error 15 Fault_Start							
4012	Gate Drive Fault	Fault Word – Gate Drive	None	Bit Gate Fault 0 GATE_DRV_FLT 3 GATE_DRV_FLT_UVLO	Read	None	None	x	x	x	x
4013	Over Temp Fault	Fault Word- Over Temp	None	(0=No Fault, Bit(x) on = indicated Flt) Bit1 = Flt_OverTemp_StatorTherm1	Read	None	None	x	x	x	x

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
				Bit2 = Flt_OverTemp_Heat Sink Bit3 = Flt_OverTemp_Stator Therm2 Bit8 = Flt_OverTemp_Board							
4014	CIM Fault Status	Fault Word – Comm/IO	None	(0=No Fault, Bit(x) on = indicated Flt) Bit0 = Flt_CIM_InvComm Bit1 = Flt_CIM_Digital Input Bit2 = Flt_CIM_Analog Input Bit3 = Flt_CIM_24 VDC Bit4 = Flt_CIM_Inv Settings Flt Bit5 = Reserved Bit6 = Flt_CIM_Override Bit7 = Flt_CIM_Modbus Fail Over Bit8 = Flt_CIM_Analog Fail Over	Read	None	None	x	x	x	x

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
Section 70: Device Information											
7002	Motor Max Current	Displays maximum motor current	None	Unsigned 2DP	Read	Amps (A)	None	x	x	x	x
7003	Motor Voltage	Displays nominal VAC for motor	None	Unsigned 0DP	Read	Volts (V)	None	x	x	x	x
7004	Motor Serial No (Word 1)	Displays Word 1 of motor serial number	None	Unsigned 0DP	Read	None	None		x	x	x
7005	Motor Serial No (Word 2)	Displays Word 2 of motor serial number	None	Unsigned 0DP	Read	None	None		x	x	x
7006	Motor Serial No (Word 3)	Displays Word 3 of motor serial number	None	Unsigned 0DP	Read	None	None		x	x	x
7007	Motor Serial No (Word 4)	Displays Word 4 of motor serial number	None	Unsigned 0DP	Read	None	None		x	x	x
7008	Motor Serial No (Word 5)	Displays Word 5 of motor serial number	None	Unsigned 0DP	Read	None	None		x	x	x
7009	Motor Serial No (Word 6)	Displays Word 6 of motor serial number	None	Unsigned 0DP	Read	None	None		x	x	x
7010	Motor Serial No (Word 7)	Displays Word 7 of motor serial number	None	Unsigned 0DP	Read	None	None		x	x	x

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
7011	Old SN1	Displays Word 1 of motor serial number	None	Unsigned 0DP	Read	None	None	x			
7012	Old SN2	Displays Word 2 of motor serial number	None	Unsigned 0DP	Read	None	None	x			
7013	Old SN3	Displays Word 3 of motor serial number	None	Unsigned 0DP	Read	None	None	x			
7014	Old SN4	Displays Word 4 of motor serial number	None	Unsigned 0DP	Read	None	None	x			
7021	Motor Model	Displays Motor Model number	None	Unsigned 0DP	Read	None	None	x	x	x	x
7031	Inverter Firmware Major	Displays Inverter Firmware Major Version	None	Unsigned 0DP	Read	None	None	x	x	x	x
7032	Inverter Firmware Minor	Displays Inverter Firmware Minor Version	None	Unsigned 0DP	Read	None	None	x	x	x	x
7033	CIM Firmware Major	Displays CIM Major Version	None	Unsigned 0DP	Read	None	None	x	x	x	x
7034	CIM Firmware Minor	Displays CIM Minor Version	None	Unsigned 0DP	Read	None	None	x	x	x	x
7035	Motor Type	Displays Motor Type	None	Unsigned 0DP	Read	None	None	x	x	x	x
7036	Hardware ID	Displays HW ID	None	Unsigned 0DP	Read	None	None	x	x	x	x

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
7039	Hardware ID INV	Displays Inv ID	None	Unsigned 0DP	Read	None	None		x	x	x
7040	Hardware ID VFD	Displays VFD ID	None	Unsigned 0DP	Read	None	None		x	x	x
7041	Hardware ID CIM	Displays CIM	None	Unsigned 0DP	Read	None	None		x	x	x
7042	Horsepower	Displays Horsepower	None	Unsigned 0DP	Read	None	None		x	x	x
7043	Frame Size	Displays Fame Size	None	Unsigned 0DP	Read	None	None		x	x	x
7044	Stator Type	Stator Type	None	Unsigned 0DP	Read	None	None		x	x	x
Section 71: Device Information (Lifetime)											
7101	Drive Runtime	Displays Drive Runtime hours	0 = Reset	Unsigned 0DP	Read/ Write	Hour (hr)	None	x	x	x	x
7102	Motor Runtime	Displays Motor Runtime hours	0 = Reset	Unsigned 0DP	Read/ Write	Hour (hr)	None	x	x	x	x
7103	Motor MWh	Displays power consumed by motor (MWh)	0 = Reset	Unsigned 1DP	Read/ Write	Mega Watt Hour (MWh)	None	x			

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
Section 86: MAC Address Words											
8601	RTU Slave Address	Modbus RTU slave address	1-247	Unsigned 0DP	Read/ Write	None	247	x	x	x	x
8602	RTU Baud Rate	Modbus RTU baud rate	0 = 1200 bps 1 = 2400 bps 2 = 4800 bps 3 = 9600 bps 4 = 19200 bps 5 = 38400 bps 6 = 57600 bps 7 = 76800 bps 8 = 115200 bps	Enumerated	Read/ Write	None	4 = 19200 bps	x	x	x	x
8603	RTU Parity	Modbus RTU parity	0 = No Parity 1 = Even Parity 2 = Odd Parity	Enumerated	Read/ Write	None	1 = Even Parity	x	x	x	x
8604	MAC Address (Word 1)	MAC Address bytes 1 & 2	None	Unsigned 0DP	Read	None	None	x	x	x	x
8605	MAC Address (Word 2)	MAC Address bytes 3 & 4	None	Unsigned 0DP	Read	None	None	x	x	x	x
8606	MAC Address (Word 3)	MAC Address bytes 5 & 6	None	Unsigned 0DP	Read	None	None	x	x	x	x

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
8607	IoT Update Rate	IoT Update Frequency in seconds (default is 60)	0-65535 = 0-65535 seconds	Unsigned 0DP	Read/ Write	Seconds	900 = 900 Seconds	x			
8610	RTU Stop Bits	Modbus RTU Stop Bits	0 = 1 stop bit 1 = 2 stop bits	Enumerated	Read/ Write	None	0 = 1 stop bit				x
8611	Modbus Monitor Enable	Enable for Modbus Monitor failover feature	0 = Disable 1 = Enable	Bit Field 1	Read/	None	0 = Disable	x	x	x	x
8612	Modbus Monitor Timeout	Time in seconds to detect Modbus communications fault	0-65535 = 0-65535 seconds	Unsigned 0DP	Write	Seconds	30 = 30 Seconds	x	x	x	x
8613	Modbus Monitor Resume	If set, resume previous speed when communications resumes	0 = Disable 1 = Enable	Bit Field 1	Read/	None	0 = Disable	x	x	x	x
8614	Modbus Monitor Stop	Stop motor in event of loss of communications	0 = Fail Over Speed 1 = Stop Motor	Bit Field 1	Write	None	0 = Fail Over Speed	x	x	x	x
8615	Modbus Monitor Speed	Interim motor speed during loss of communications	Integer between Speed User Minimum and Speed User Maximum	Unsigned 0DP	Read/	RPM	100 RPM	x	x	x	x

Register Number All are Holding Registers	Parameter	Description	Options	Type	Read/ Write	Units	Default Value	Gen2/3	Gen4.0	Gen 4.1	Gen 4.2
Section 87: System Controls											
8701	Parameter Save	Saves valid parameter values to permanent memory	None	Bit Field 1	Read/ Write	None	None	x	x	x	x

Section 88: Parameter Table “Type” Specifications

Type	Description	Words	Minimum Value	Maximum Value
Signed 0DP No Decimal Point	Signed 16-bit number with no characters past decimal point	1	-32768	32767
Signed 1DP	Signed 16-bit number with one character past decimal point	1	-3276.8	3276.7
Signed 2DP	Signed 16-bit number with two characters past decimal point	1	-327.68	327.67
Signed 3DP	Signed 16-bit number with three characters past decimal point	1	-32.768	32.768
Unsigned 0DP	Unsigned 16-bit number with no characters past decimal point	1	0	65536

Unsigned 1DP	Unsigned 16-bit number with one character past decimal point	1	0.0	6553.6
Unsigned 2DP	Unsigned 16-bit number with two characters past decimal point	1	0.00	655.36
Enumerated	An unsigned number defined by an enumerated list. The list is defined in a corresponding table	1	0	65536