

Modbus Register Map:Galaxy VX (3:3 250kW-1500kW)

Notes:

- 1. 16-bit registers are transmitted MSB first (i.e. big-endian).
- 2. INT32 and UINT32 are most-significant word in n+0, least significant word in n+1 (i.e. big-endian).
- 3. Function codes 3 and 4 are supported
- 4. Modbus serial RTU and Modbus over TCP is supported.
- 5. Signed numbers are twos-compliment

6. Status bits are atomic within a single Modbus register. User should not look for consistency across multiple registers, only within a single register.

7. For ASCII strings less than the maximum length, the unused characters are filled with nulls.

8. Single-register reads of reserved or undefined registers will return an error. Block reads which begin with a valid register will not return an error but will return zeros for undefined registers. 9. Strings are two characters per register, first character in high-order byte, second character in low-order byte. Printable ASCII only.

10. Bit #0 is least significant bit.

- 11. Data Type column: "INT16"=signed 16-bit integer, "UINT16" = unsigned 16-bit integer, "INT32" = signed 32-bit integer, "UINT32" = unsigned 32-bit integer, "ENUM" is a UINT16 value which maps to a defined list of states, "ASCII" = the printable ASCII subset from 0x20 - 0x7E. BOOLEAN= a single bit, 0 or 1.
- 12. "Absolute Starting Register Address" = 0 (the column heading used in this table) is equivalent to "Register 40001" in Modicon terminology, which is address zero when transmitted over the wire.

For detailed modbus configuration settings, please refer to the Display or AP9635 User's Guide.

							Sca	ale	
Modicon Standard Register Number	Absolute Starting Register Address, (Hexa-decimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	Data Type	Multiply Reading By:	Divide Reading By:	Valid Response
Status Data									
40002	0x0001	1		UPS Status	1				
				UPS operation mode - Battery		BOOLEAN			1=UPS operation mode - Battery
				Battery is below minimum acceptable runtime		BOOLEAN			1=Battery is below minimum acceptable runtime
				Bypass		BOOLEAN			1=UPS is in Bypass
				UPS operation mode - Battery Test		BOOLEAN			1=UPS operation mode - Battery Test
				Reserved	ļļ	BOOLEAN			
				High Efficiency Mode disable by system		BOOLEAN			1=High Efficiency Mode (ECO, ECOnversion) disable by system
				Reserved	ļļ	BOOLEAN			
	 			Reserved	ļļ	BOOLEAN			
				Reserved		BOOLEAN			
				Battery fault		BOOLEAN			1=Battery fault
				Reserved	-	BOOLEAN			
				Reserved	-	BOOLEAN			
				Reserved		BOOLEAN			
				Informational alarm present		BOOLEAN			1=Informational alarm present
				Warning alarm present		BOOLEAN			1=Warning alarm present
40002	0,0000	2		Critical alarm present Alarm Register	1	BOOLEAN			1=Critical alarm present
40003	0x0002	Z		Lost local network management interface - to - UPS communication	1	BOOLEAN			1-Lest less last verbare and an experiment interface. to LUDC communication
				Display communication is lost					1=Lost local network management interface - to - UPS communication
						BOOLEAN			1=Main Controller is unable to communicate with the display
			-	Parallel communication incorrect on PBUS cable 1		BOOLEAN			1=Parallel communication incorrect on PBUS cable 1
				Parallel communication incorrect on PBUS cable 2		BOOLEAN			1=Parallel communication incorrect on PBUS cable 2
			4	MegaTie activation alarm		BOOLEAN			1=MegaTie activation is present
			5	Reserved		BOOLEAN			
				Reserved		BOOLEAN			
				Reserved		BOOLEAN			
				Reserved		BOOLEAN			
				Reserved		BOOLEAN			
				Reserved		BOOLEAN			
			11	Reserved		BOOLEAN			
			12	Communication cable termination fault		BOOLEAN			1=Communication cable termination fault
				General parallel system incorrect		BOOLEAN			1=General parallel system incorrect
			14	Lost parallel redundancy		BOOLEAN			1=Lost parallel redundancy
				Reserved		BOOLEAN			
40004	0x0003	3		Alarm Register					
			0	Reserved		BOOLEAN			

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	↓						Sca	916	
Modicon Standard Register Number	Absolute Starting Register Address, (Hexa-decimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	Data Type	Multiply Reading By:	Divide Reading By:	Valid Response
			1	UPS operation mode - Requested Static Bypass		BOOLEAN			1=UPS operation mode - Requested Static Bypass
				UPS operation mode - Forced Static Bypass		BOOLEAN			1=UPS operation mode - Forced Static Bypass
				UPS operation mode - Maintenance Bypass		BOOLEAN			1=UPS operation mode - Maintenance Bypass
				Reserved UPS operation mode - Off		BOOLEAN BOOLEAN			1=UPS operation mode - Off
				UPS operation mode - Initialize		BOOLEAN			1=UPS operation mode - Initialize
				Reserved		BOOLEAN			
				Reserved Reserved		BOOLEAN BOOLEAN			
				Reserved		BOOLEAN			
			11	Input phase sequence incorrect		BOOLEAN			1=Input phase sequence incorrect
				Input frequency out of range		BOOLEAN			1=Input frequency out of range
			13	Input voltage out of range Selftest - Failed		BOOLEAN BOOLEAN			1=Input voltage is out of range 1=Self test has failed
				Power cabinet mixed operation mode (Battery and Normal)		BOOLEAN			1=Power Cabinet in mixed operation mode (Battery and Normal)
40005	0x0004	4		Alarm Register	1				
				Reserved		BOOLEAN			
	<u>├</u>			Reserved Reserved		BOOLEAN BOOLEAN			
	<u> </u>		3	Bypass frequency out of range		BOOLEAN			1=Bypass frequency out of range
			4	Bypass phase sequence incorrect		BOOLEAN			1=Bypass phase sequence incorrect
	├ ──── ├			Reserved		BOOLEAN			
	<u>├</u>			Reserved Reserved	-	BOOLEAN BOOLEAN			
				Overload on UPS		BOOLEAN			1=Overload on UPS
			9	Overload on Static bypass switch		BOOLEAN			1=Overload on Static bypass switch
				Ambient temperature out of range		BOOLEAN			1=Ambient temperature out of range
				EPO Switch Activated Ground fault detected		BOOLEAN BOOLEAN			1=EPO Switch activated 1=Ground fault detected
				Reserved		BOOLEAN			
				Bypass voltage out of range		BOOLEAN			1=Bypass voltage is out of range
40000	0.0005			High Efficiency mode is disable due to bypass UTHD		BOOLEAN			1=Bypass UTHD is out of range for High Efficiency Mode
40006	0x0005	5		Alarm Register System locked in bypass operation		BOOLEAN			1=System locked in bypass operation
			1	Batteries are discharging		BOOLEAN			1=Batteries are discharging
				Reserved		BOOLEAN			
				Reserved Continuous Overload on UPS		BOOLEAN BOOLEAN			1=Overload on UPS present. Load below Continuous Overload Threshold.
				Charge power is reduced		BOOLEAN			1=Charge power is reduced
				Reserved		BOOLEAN			
				Reserved		BOOLEAN			
				Reserved Distributed Energy Reserved Mode activated		BOOLEAN BOOLEAN			1= Distributed Energy Reserved mode activated
				Reserved		BOOLEAN			The Distributed Energy Reserved mode activated
				Reserved		BOOLEAN			
				Battery condition is weak Battery condition is poor		BOOLEAN BOOLEAN			1=Battery condition is weak
	+ +			Reserved		BOOLEAN			1=Battery condition is poor
				Battery capacity is below minimum acceptable level		BOOLEAN			1=Battery capacity is below minimum acceptable level
40007	0x0006	6		Alarm Register	1				
	<u>├</u> ────┤		0	Reserved Reserved		BOOLEAN BOOLEAN			
	<u> </u>		2	Reserved		BOOLEAN			
			3	Reserved		BOOLEAN			
				Reserved Reserved	_	BOOLEAN BOOLEAN			
	<u> </u>			Reserved		BOOLEAN			
			7	Reserved		BOOLEAN			
				Reserved		BOOLEAN			
	┼───┼			Reserved Reserved		BOOLEAN BOOLEAN			
	<u> </u>			Reserved	-	BOOLEAN			
			12	Reserved		BOOLEAN			
	├ ─────			Reserved		BOOLEAN			
	<u>├</u> ─────┤			Reserved Power cabinet redundancy lost		BOOLEAN BOOLEAN			1=Power cabinet redundancy lost
40008	0x0007	7		Alarm Register	1				
				Reserved		BOOLEAN			
	<u> </u>			Bypass transfert inhibited by relay input activated DC ground fault		BOOLEAN BOOLEAN			1= transfert to bypass is inhibited by input relay activated 1= DC ground fault is present
				Ambient temperature high		BOOLEAN			1 = DC ground fault is present 1 = Ambient temperature is high
				Overload on UPS due to high ambient temperature Output frequency out of range		BOOLEAN BOOLEAN			1 = Overload on UPS due to high ambient temperature 1=Output frequency out of range

	Absolute	Absolute					Sca
Modicon Standard Register Number	Starting Register Address, (Hexa-decimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	Data Type	Multiply Reading By:
		(Booliniai)	6	Output voltage out of range	 	BOOLEAN	
			7	Output voltage out of range Reserved		BOOLEAN	
			8	Reserved		BOOLEAN	
			9	Reserved		BOOLEAN	
			10 11	Reserved Reserved		BOOLEAN BOOLEAN	
			12	Overload on installation		BOOLEAN	
			13	Reserved		BOOLEAN	
			14	Reserved		BOOLEAN	
40000	00000	0	15	Reserved		BOOLEAN	
40009	0x0008	8	0	Alarm Register Reserved	1	BOOLEAN	
			1	Reserved		BOOLEAN	
			2	Reserved		BOOLEAN	
			3	Reserved		BOOLEAN	
			4	Reserved Reserved		BOOLEAN BOOLEAN	
	+		6	Reserved		BOOLEAN	
			7	Reserved		BOOLEAN	
			8	Reserved		BOOLEAN	
	╡─────┤		9	Reserved		BOOLEAN	
			10 11	Reserved Reserved		BOOLEAN BOOLEAN	
			12	UOB Auxiliary wiring not correct		BOOLEAN	
			13	Reserved		BOOLEAN	
				Reserved		BOOLEAN	
			15	Reserved		BOOLEAN	
40010	0x0009	9	0	Alarm Register Reserved	1	BOOLEAN	
			1	Reserved		BOOLEAN	
			2	Reserved		BOOLEAN	
			3	Reserved		BOOLEAN	
			4	Load bank breaker closed, parallel test mode enabled		BOOLEAN	
			5	Reserved Reserved		BOOLEAN BOOLEAN	
			7	Reserved		BOOLEAN	
			8	Reserved		BOOLEAN	
			9	Unit Unit Breaker (UIB) open		BOOLEAN	
			10	Unit Ouput Breaker (UOB) open		BOOLEAN	
			11 12	Maintenance Bypass Breaker (MBB) closed System Isolation Breaker (SIB) open		BOOLEAN BOOLEAN	
			13	Static Switch Input Breaker (SIB) open		BOOLEAN	
			14	Reserved		BOOLEAN	
			15	Reserved		BOOLEAN	
40011	0x000A	10		Alarm Register	1		
			0	Reserved		BOOLEAN	
			2	Reserved Reserved		BOOLEAN BOOLEAN	
			3	Reserved		BOOLEAN	
			4	Reserved		BOOLEAN	
	T		5	Reserved		BOOLEAN	
	+		6	Reserved Reserved		BOOLEAN	
	+ +		8	Reserved Static bypass switch inoperable		BOOLEAN BOOLEAN	
	+ +		9	Static bypass switch warning	1	BOOLEAN	
			10	Reserved		BOOLEAN	
			11	Reserved		BOOLEAN	
	+		12	Reserved		BOOLEAN	
	+ +			Reserved Reserved		BOOLEAN BOOLEAN	
	+ +		15	Reserved	1	BOOLEAN	
40012	0x000B	11		RESERVED	2		
40014	0x000D	13		Alarm Register	1		
	+		0	Reserved		BOOLEAN	
	+ +		1	Reserved Reserved		BOOLEAN BOOLEAN	
	+ +		3	Reserved		BOOLEAN	
			4	Battery room ventilation inoperable		BOOLEAN	
			5	Reserved		BOOLEAN	
	+		6	Reserved		BOOLEAN	
	+		7	Reserved Reserved		BOOLEAN BOOLEAN	
	+ +		9	Reserved	1	BOOLEAN	
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Divide Reading By:	Valid Response
	1=Output voltage is out of range
	1=Overload on installation
	1= UOB Aux wiring is not correct
	1=Load bank breaker closed, parallel test mode enabled
	1=Unit Unit Breaker (UIB) open
	1=Unit Ouput Breaker (UOB) open 1=Maintenance Bypass Breaker (MBB) closed
	1=System Isolation Breaker (SIB) open 1=Static Switch Input Breaker (SSIB) open
	1=Static bypass switch has a critical alarm that prevents it from operating 1=Static bypass switch has an alarm with severity level warning
	1=Battery room ventilation inoperable
	1=External battery monitoring alarm

Modicon Standard Register Number	Absolute Starting Register Address, (Hexa-decimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	Data Type	Multiply Reading By:
			11	Reserved		BOOLEAN	
			12	Reserved		BOOLEAN	
			13	Reserved		BOOLEAN	
			14 15	Reserved Reserved		BOOLEAN BOOLEAN	
40015	0x000E	14	10	Alarm Register	1	BOOLEAN	
			0	Reserved		BOOLEAN	
			1	Reserved		BOOLEAN	
			2	Reserved		BOOLEAN BOOLEAN	
			4	High Battery Temperature Level Low Battery Temperature Level		BOOLEAN	
			5	Reserved		BOOLEAN	
			6	Reserved		BOOLEAN	
			7	Reserved		BOOLEAN	
			8	Reserved		BOOLEAN	
	+ +		9 10	Reserved Reserved		BOOLEAN BOOLEAN	
			11	Battery breaker BB1 open		BOOLEAN	
			12	Battery breaker BB2 open		BOOLEAN	
			13	Battery breaker BB3 open		BOOLEAN	
	+		14	Battery breaker BB4 open		BOOLEAN	
40016	0x000F	15	15	Delayed transfer from Battery to Normal Operation Alarm Register	1	BOOLEAN	
40010	UXUUUF	15	0	Reserved	1	BOOLEAN	
			1	Reserved		BOOLEAN	
			2	Reserved		BOOLEAN	
				Reserved		BOOLEAN	
			4	Reserved Reserved		BOOLEAN	
			5	Reserved		BOOLEAN BOOLEAN	
			7	Reserved		BOOLEAN	
			8	Reserved		BOOLEAN	
			9	Breaker BF2 open		BOOLEAN	
			10	Reserved		BOOLEAN	
	+ +		11 12	Reserved Reserved		BOOLEAN BOOLEAN	
			13	Reserved		BOOLEAN	
			14	Li-Ion AC Supply Breaker BMS:B1/BMS:B2 open		BOOLEAN	
10017	0.0010	40	15	Reserved	1	BOOLEAN	
40017	0x0010	16	0	Alarm Register UPS operation mode - Static bypass standby	1	BOOLEAN	
			1	UPS operation mode - Inverter standby		BOOLEAN	
			2	Reserved		BOOLEAN	
			3	Reserved		BOOLEAN	
			4	General UPS settings incorrect		BOOLEAN BOOLEAN	
			6	UPS configuration incorrect Synchronization unavailable		BOOLEAN	
			7			BOOLEAN	
			7 8	Fan inoperable Inverter is Off due to a request by the user		BOOLEAN BOOLEAN	
			7 8 9	Fan inoperable Inverter is Off due to a request by the user Restricted air flow		BOOLEAN BOOLEAN BOOLEAN	
			7 8 9 10	Fan inoperable Inverter is Off due to a request by the user Restricted air flow Surveillance detected a fault		BOOLEAN BOOLEAN BOOLEAN BOOLEAN	
			7 8 9	Fan inoperable Inverter is Off due to a request by the user Restricted air flow Surveillance detected a fault Charger status		BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN	
			7 8 9 10 11 12	Fan inoperable Inverter is Off due to a request by the user Restricted air flow Surveillance detected a fault Charger status Inverter status PFC status		BOOLEAN BOOLEAN BOOLEAN BOOLEAN	
			7 8 9 10 11 12 13 14	Fan inoperable Inverter is Off due to a request by the user Restricted air flow Surveillance detected a fault Charger status Inverter status PFC status Battery status		BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN	
			7 8 9 10 11 12 13 14	Fan inoperable Inverter is Off due to a request by the user Restricted air flow Surveillance detected a fault Charger status Inverter status PFC status Battery status Reserved		BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN	
40018	0x0011	17	7 8 9 10 11 12 13 14 15	Fan inoperable Inverter is Off due to a request by the user Restricted air flow Surveillance detected a fault Charger status Inverter status PFC status Battery status Reserved Alarm Register		BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN	
40018	0x0011	17	7 8 9 10 11 12 13 14 15 0	Fan inoperable Inverter is Off due to a request by the user Restricted air flow Surveillance detected a fault Charger status Inverter status PFC status Battery status Reserved Alarm Register Technical check recommended	1	BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN	
40018	0x0011	17	7 8 9 10 11 12 13 14 15	Fan inoperable Inverter is Off due to a request by the user Restricted air flow Surveillance detected a fault Charger status Inverter status PFC status Battery status Reserved Alarm Register		BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN	
40018	0x0011	17	7 8 9 10 11 12 13 14 15 0 1 2 3	Fan inoperable Inverter is Off due to a request by the user Restricted air flow Surveillance detected a fault Charger status Inverter status PFC status Battery status Reserved Alarm Register Technical check recommended Start-up recommended Warranty expiring soon Reserved		BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN	
40018	0x0011	17	7 8 9 10 11 12 13 14 15 0 1 2 3 4	Fan inoperable Inverter is Off due to a request by the user Restricted air flow Surveillance detected a fault Charger status Inverter status PFC status Battery status Reserved Alarm Register Technical check recommended Start-up recommended Warranty expiring soon Reserved Air filter check recommended		BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN	
40018	0x0011	17	7 8 9 10 11 12 13 14 15 0 1 2 3 4 5	Fan inoperable Inverter is Off due to a request by the user Restricted air flow Surveillance detected a fault Charger status Inverter status PFC status Battery status Reserved Alarm Register Technical check recommended Start-up recommended Warranty expiring soon Reserved Air filter check recommended Reserved		BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN	
40018	0x0011	17	7 8 9 10 11 12 13 14 15 0 1 2 3 4	Fan inoperable Inverter is Off due to a request by the user Restricted air flow Surveillance detected a fault Charger status Inverter status PFC status Battery status Reserved Alarm Register Technical check recommended Start-up recommended Warranty expiring soon Reserved Air filter check recommended Reserved Reserved		BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN	
40018	0x0011	17	7 8 9 10 11 12 13 14 15 0 1 2 3 4 5	Fan inoperable Inverter is Off due to a request by the user Restricted air flow Surveillance detected a fault Charger status Inverter status PFC status Battery status Reserved Alarm Register Technical check recommended Start-up recommended Warranty expiring soon Reserved Air filter check recommended Reserved		BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN	
40018	0x0011	17	7 8 9 10 11 12 13 14 15 0 1 1 2 3 4 5 6 7 8 9	Fan inoperable Inverter is Off due to a request by the user Restricted air flow Surveillance detected a fault Charger status Inverter status PFC status Battery status Reserved Alarm Register Technical check recommended Start-up recommended Warranty expiring soon Reserved Air filter check recommended Reserved		BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN	
40018	0x0011	17	7 8 9 10 11 12 13 14 15 0 1 2 3 4 5 6 7 8 9 10	Fan inoperable Inverter is Off due to a request by the user Restricted air flow Surveillance detected a fault Charger status Inverter status PFC status Battery status Reserved Alarm Register Technical check recommended Start-up recommended Warranty expiring soon Reserved Air filter check recommended Reserved Reserved		BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN	
40018		17	7 8 9 10 11 12 13 14 15 0 1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 14 15 15 10 11 12 13 14 15 10 11 11 12 13 14 15 15 10 11 15 15 10 11 15 15 10 11 15 15 10 11 15 15 15 16 17 17 17 17 17 17 17 17 17 17	Fan inoperable Inverter is Off due to a request by the user Restricted air flow Surveillance detected a fault Charger status Inverter status PFC status Battery status Reserved Alarm Register Technical check recommended Start-up recommended Warranty expiring soon Reserved Air filter check recommended Reserved Reserved		BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN	
40018		17	7 8 9 10 11 12 13 14 15 0 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 14 15 15 10 11 12 13 14 15 15 10 11 12 13 14 15 15 15 15 10 11 12 13 14 15 15 15 15 16 17 17 17 17 17 17 17 17 17 17	Fan inoperable Inverter is Off due to a request by the user Restricted air flow Surveillance detected a fault Charger status Inverter status PFC status Battery status Reserved Alarm Register Technical check recommended Start-up recommended Warranty expiring soon Reserved Air filter check recommended Reserved Reserved		BOOLEAN BOOLEAN	
40018		17	7 8 9 10 11 12 13 14 15 0 1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 14 15 15 10 11 12 13 14 15 10 11 11 12 13 14 15 15 10 11 15 15 10 11 15 15 10 11 15 15 10 11 15 15 15 16 17 17 17 17 17 17 17 17 17 17	Fan inoperable Inverter is Off due to a request by the user Restricted air flow Surveillance detected a fault Charger status Inverter status PFC status Battery status Reserved Alarm Register Technical check recommended Start-up recommended Warranty expiring soon Reserved Air filter check recommended Reserved Reserved		BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN	

Divide Reading By:	Valid Response
	1=Battery temperature above alarm setting
	1=Battery temperature below alarm setting
	1=Battery breaker BB1 open
	1=Battery breaker BB2 open
	1=Battery breaker BB3 open 1=Battery breaker BB4 open
	1=The delayed transfer from Battery to Normal Operation is active.
	1= breaker BF2 open
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	1=Li-Ion AC Supply Breaker BMS:B1/BMS:B2 open
	1=UPS operation mode - Static bypass standby 1=UPS operation mode - Inverter standby
	1=General UPS settings incorrect
	1=UPS general configuration is incorrect 1=Synchronization unavaliable - system is free running
	1=UPS has one or more inoperable fans. Fan redundancy is lost.
	1= Inverter is Off due to a request by the user
	1=Restricted air flow
	1=Surveillance detected a fault
	1=Inoperable 1=Inoperable
	1=Inoperable
	1=Inoperable
	1=Technical check recommended
	1= Secure start-up recommended
	1=Warranty expiring soon
	1=Air filter check recommened

Modicon Standard Register Number	Absolute Starting Register Address, (Hexa-decimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	Data Type	Multiply Reading By:	ale R
40020	0x0013	19		Alarm Register	1 1			
40020	0,0013	19	0	Reserved	1	BOOLEAN		<u> </u>
			1	Reserved		BOOLEAN		
			2	Reserved		BOOLEAN		L
			3	Reserved Reserved		BOOLEAN BOOLEAN		<u> </u>
				Not enough UPSs ready to turn on inverter		BOOLEAN		
			6	Parallel UPS 1 not present		BOOLEAN		
			7	Parallel UPS 2 not present		BOOLEAN		
			8	Parallel UPS 3 not present		BOOLEAN		
			9	Parallel UPS 4 not present		BOOLEAN		<u> </u>
			10	Parallel UPS 5 not present Parallel mixed operation mode		BOOLEAN BOOLEAN		
			12	Firmware versions in parallel UPS units are not identical		BOOLEAN		<u> </u>
			13	Reserved		BOOLEAN		
				Reserved		BOOLEAN		
40004	0.0044	00	15	Reserved		BOOLEAN		<u> </u>
40021 40022	0x0014 0x0015	<u>20</u> 21		RESERVED Alarm Register	1			
	0,0013	۷۱	0	System operation mode - Off		BOOLEAN		
			1	System operation mode - Forced static bypass		BOOLEAN		
			2	System operation mode - Requested static bypass		BOOLEAN		
	1		3	System operation mode - Maintenance bypass		BOOLEAN		<u> </u>
			4	System operation mode - Static Bypass Standby Reserved		BOOLEAN BOOLEAN		<u> </u>
				Reserved		BOOLEAN		
				Reserved		BOOLEAN		
			8	Reserved		BOOLEAN		
			9	Reserved		BOOLEAN		
	-			Reserved Reserved		BOOLEAN BOOLEAN		<u> </u>
				Reserved		BOOLEAN		
				Reserved		BOOLEAN		
				Reserved		BOOLEAN		
			15	Reserved		BOOLEAN		L
40023	0x0016	22	0	Alarm Register Input missing phase	1	BOOLEAN		
			1	Bypass missing phase		BOOLEAN		
			2	External sync voltage out of range		BOOLEAN		
			3	External sync phase sequence incorrect		BOOLEAN		
	_		4	External sync frequency out of range		BOOLEAN		<u> </u>
			5	External sync missing phase External sync temporarily disabled		BOOLEAN BOOLEAN		<u> </u>
			-	Flywheel inoperable		BOOLEAN		<u> </u>
				Display firmware incompatibility detected		BOOLEAN		
				NMC 1 firmware incompatibility detected		BOOLEAN		
	+ +			NMC 2 firmware incompatibility detected		BOOLEAN		<u> </u>
	++		11	10-Inch display incompatibility detected Inverter output is not in phase with bypass input		BOOLEAN BOOLEAN		
	+ +		12	Engineering Firmware Version detected		BOOLEAN		├──
			14	Reserved		BOOLEAN		
				Reserved		BOOLEAN		
40024	0x0017	23		Alarm Register	1	DOOLETT		\vdash
	+		0	Reserved Reserved		BOOLEAN BOOLEAN		├
	+ +		2	Reserved		BOOLEAN		
	+ +		3	Reserved		BOOLEAN		<u> </u>
			4	Reserved		BOOLEAN		
			5	Reserved		BOOLEAN		L
	+		6	Reserved Reserved		BOOLEAN BOOLEAN		<u> </u>
	1		1	Reserved		BOOLEAN		
				Reserved		BOOLEAN		
						BOOLEAN		
			10	Reserved				
			10 11	Reserved		BOOLEAN		ļ
			10 11 12	Reserved Reserved		BOOLEAN BOOLEAN		
			10 11 12 13	Reserved Reserved Reserved		BOOLEAN BOOLEAN BOOLEAN		
			10 11 12 13 14	Reserved Reserved Reserved Reserved		BOOLEAN BOOLEAN BOOLEAN BOOLEAN		
40025	0x0018	24	10 11 12 13 14	Reserved Reserved Reserved		BOOLEAN BOOLEAN BOOLEAN		
40025	0x0018	24	10 11 12 13 14 15	Reserved Reserved Reserved Reserved Reserved Alarm Register Reserved		BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN		
40025	0x0018	24	10 11 12 13 14 15	Reserved Reserved Reserved Reserved Reserved Alarm Register		BOOLEAN BOOLEAN BOOLEAN BOOLEAN BOOLEAN		

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Divide Reading By:	Valid Response
Dy.	
	1=Not enough UPSs ready to turn on inverter
	1=Parallel UPS 1 not present 1=Parallel UPS 2 not present
	1=Parallel UPS 3 not present
	1=Parallel UPS 4 not present 1=Parallel UPS 5 not present
	1=Parallel mixed operation mode
	1=Firmware versions in parallel UPS units are not identical
	1 - System operation mode. Off
	1 = System operation mode - Off 1 = System operation mode - Forced static bypass
	1 = System operation mode - Requested static bypass 1 = System operation mode - Maintenance bypass
	1 = System operation mode - Maintenance bypass 1 = System operation mode - Static Bypass Standby
	1=Input is missing a phase 1=Bypass input is missing a phase
	1=External sync voltage is out of range
	1=The phase rotation on external sync is wrong 1=External sync frequency is out of range
	1=External sync is missing a phase
	1=External sync temporarily disabled 1=Flywheel inoperable
	1=Display firmware incompatibility detected 1=NMC 1 firmware incompatibility detected
	1=NMC 2 firmware incompatibility detected
	1=10 inch Display firmware incompatibility detected 1=Inverter output is not in phase with bypass input
	1=Alarm Engineering Firmware Version detected

			1			6		
Modicon Standard Register Number	Absolute Starting Register Address, (Hexa-decimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point Length # registers	Data Type	Sca Multiply Reading By:	Divide Reading By:	Valid Response
	i i		4	Reserved	BOOLEAN	İ	İ	
			5	Reserved	BOOLEAN			
			6	Reserved	BOOLEAN			
			7	Reserved	BOOLEAN			
				Reserved Reserved	BOOLEAN BOOLEAN			
				Reserved	BOOLEAN			
				Reserved	BOOLEAN			
				Reserved	BOOLEAN			
				Reserved	BOOLEAN			
				Reserved Reserved	BOOLEAN BOOLEAN			
40026	0x0019	25	10	Alarm Register 1	DOOLLAN			
10020			0	Sensor AP9810 - Input contact A in sensor 1	BOOLEAN			1 = Alarm from sensor 1 / contact A
			1	Sensor AP9810 - Input contact B in sensor 1	BOOLEAN			1 = Alarm from sensor 1 / contact B
				Sensor AP9810 - Input contact A in sensor 2	BOOLEAN			1 = Alarm from sensor 2 / contact A
				Sensor AP9810 - Input contact B in sensor 2	BOOLEAN			1 = Alarm from sensor 2 / contact B
				Sensor AP9335T or AP9335TH - temperature alarm in sensor 1 Sensor AP9335T or AP9335TH - temperature alarm in sensor 2	BOOLEAN BOOLEAN			1 = temperature alarm in sensor 1 1 = temperature alarm in sensor 2
				Sensor AP93351 or AP93351H - temperature alarm in sensor 2 Sensor AP9335TH - humidity alarm in sensor 1	BOOLEAN			1 = temperature alarm in sensor 2 1 = humidity alarm in sensor 1
				Sensor AP9335TH - humidity alarm in sensor 2	BOOLEAN			1 = humidity alarm in sensor 2
			8	Sensor Communication Lost with sensor 1	BOOLEAN			1 = communication lost with sensor 1
				Sensor Communication Lost with sensor 2	BOOLEAN			1= communication lost with sensor 2
				Reserved	BOOLEAN			
				Reserved Reserved	BOOLEAN BOOLEAN			
				Reserved	BOOLEAN			
				Reserved	BOOLEAN			
			15	Reserved	BOOLEAN			
40027	0x0020	26		Alarm Register 1				
			0	Power Cabinet 1 surveillance detected a fault	BOOLEAN			1 = Power Cabinet 1 surveillance detected a fault
			2	Power Cabinet 2 surveillance detected a fault Power Cabinet 3 surveillance detected a fault	BOOLEAN BOOLEAN			1 = Power Cabinet 2 surveillance detected a fault 1 = Power Cabinet 3 surveillance detected a fault
				Power Cabinet 4 surveillance detected a fault	BOOLEAN			1 = Power Cabinet 4 surveillance detected a fault
				Power Cabinet 5 surveillance detected a fault	BOOLEAN			1 = Power Cabinet 5 surveillance detected a fault
				Power Cabinet 6 surveillance detected a fault	BOOLEAN			1 = Power Cabinet 6 surveillance detected a fault
			6	Power Cabinet 7 surveillance detected a fault	BOOLEAN			1 = Power Cabinet 7 surveillance detected a fault
			7	Reserved	BOOLEAN			1 - Dower exhinet inenerable
				Power Cabinet 1 inoperable Power Cabinet 2 inoperable	BOOLEAN BOOLEAN			1 = Power cabinet inoperable 1 = Power cabinet inoperable
				Power Cabinet 3 inoperable	BOOLEAN			1 = Power cabinet inoperable
				Power Cabinet 4 inoperable	BOOLEAN			1 = Power cabinet inoperable
				Power Cabinet 5 inoperable	BOOLEAN			1 = Power cabinet inoperable
				Power Cabinet 6 inoperable	BOOLEAN			1 = Power cabinet inoperable
				Power Cabinet 7 inoperable Reserved	BOOLEAN BOOLEAN			1 = Power cabinet inoperable
40028	0x0021	27	15	Alarm Register 1	BOULEAN			
10020		<u> </u>	0	Input dry contact: Genset supplying UPS	BOOLEAN			1= a Genset supply the UPS
			1	Input dry contact: Battery room ventilation inoperable	BOOLEAN			1= Battery room ventilation inoperable
				Input dry contact: External battery monitoring inoperable	BOOLEAN			1= External battery monitoring inoperable
				Input dry contact: Ground fault detected	BOOLEAN			1= Ground fault detected
			_	Input dry contact: UPS locked in static bypass mode is actived Input dry contact: User-defined input dry contacts 1	BOOLEAN BOOLEAN			1= UPS locked in static bypass mode is actived 1= User-defined input dry contacts 1, in alarm position
				Input dry contact: User-defined input dry contacts 1	BOOLEAN			1= User-defined input dry contacts 2, in alarm position
			7	Input dry contact: Flywheel inoperable	BOOLEAN			1= Flywheel inoperable
				Input dry contact: External energy storage monitoring major alarm	BOOLEAN			1= External energy storage monitoring major alarm
				Input dry contact: External energy storage monitoring minor alarm	BOOLEAN			1= External energy storage monitoring minor alarm
				Input dry contact: Force Charger Off	BOOLEAN			1= Force Charger Off
				Input dry contact: Disable High Efficiency Mode Input dry contact: Transfer from Battery to Normal Operation delay	BOOLEAN BOOLEAN			1= Disable High Efficiency Mode 1=Transfer from Battery to Normal Operation delay
				Input dry contact: Transfer from Battery to Normal Operation delay	BOOLEAN			1=Force Battery Operation
			14	Input dry contact: Request Bypass operation	BOOLEAN			1=Requested Bypass command from input relay activated
			15	Reserved	BOOLEAN			
40029	0x0022	28		Alarm Register 1				
			0	Power Cabinet 1 surveillance fault	BOOLEAN			1 = Temporized Power Cabinet surveillance fault
			2	Power Cabinet 1 inoperable Power Cabinet 1 - Power Bloc L1A - Surveillance fault	BOOLEAN BOOLEAN			1 = Temporized Power Cabinet inoperable 1 = Power Bloc from Power Cabinet Surveillance fault
				Power Cabinet 1 - Power Bloc L2A - Surveillance fault	BOOLEAN			1 = Power Bloc from Power Cabinet Surveillance fault
			4	Power Cabinet 1 - Power Bloc L3A - Surveillance fault	BOOLEAN			1 = Power Bloc from Power Cabinet Surveillance fault
				Power Cabinet 1 - Power Bloc L1B - Surveillance fault	BOOLEAN			1 = Power Bloc from Power Cabinet Surveillance fault
			-	Power Cabinet 1 - Power Bloc L2B - Surveillance fault	BOOLEAN			1 = Power Bloc from Power Cabinet Surveillance fault
				Power Cabinet 1 - Power Bloc L3B - Surveillance fault Power Cabinet 2 surveillance fault	BOOLEAN BOOLEAN			1 = Power Bloc from Power Cabinet Surveillance fault 1 = Temporized Power Cabinet surveillance fault
		l			DOOLLAN	1	1	

Modition Standard Register Number Absolute Starting Register Address, (Cectma) Bit Bit (Cectma) Data Point Longth (register) Data Type (register) Multiply Register (Rest- extma) Divide Register (Rest- extma) Image: Comparison of the starting Number 0 Power Cabinel 2. Power Bios L1A. Surveillance Jault BOOLEAN 1 = Temported Power Cabinel BooleAN Image: Comparison of the starting Number 0 Power Cabinel 2. Power Bios L1A. Surveillance Jault BOOLEAN 1 = Temported Power Cabinel BooleAN Image: Comparison of the starting Number 0 Power Cabinel 2. Power Bios L1A. Surveillance Jault BOOLEAN 1 = Power Bios Citon Power C BooleAN Image: Comparison of the starting Number 1 = Power Bios L1A. Surveillance Jault BOOLEAN 1 = Power Bios Citon Power C BooleAN 1 = Power Bios Citon Power C BooleAN Image: Comparison of the starting Number 1 = Power Bios Citon Power C BooleAN 1 = Power Bi	abinet Surveillance fault abinet Surveillance fault abinet Surveillance fault abinet Surveillance fault abinet Surveillance fault abinet Surveillance fault et surveillance fault et inoperable abinet Surveillance fault abinet Surveillance fault abinet Surveillance fault abinet Surveillance fault abinet Surveillance fault abinet Surveillance fault abinet Surveillance fault
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4 Power Cabinet 7 - Power Bloc L3A - Surveillance fault BOOLEAN 1 = Power Bloc from Power C	abinet Surveillance fault
5 Power Cabinet 7 - Power Bloc L1B - Surveillance fault BOOLEAN 1 = Power Bloc from Power C	
6 Power Cabinet 7 - Power Bloc L2B - Surveillance fault BOOLEAN 1 = Power Bloc from Power C	
7 Power Cabinet 7 - Power Bloc L3B - Surveillance fault BOOLEAN 1 = Power Bloc from Power C 8 Reserved BOOLEAN BOOLEAN	
8 Reserved BOOLEAN 9 Reserved	
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12 Reserved BOOLEAN	
13 Reserved BOOLEAN	
14 Reserved BOOLEAN 15 Reserved BOOLEAN	
Static Data Image: Static Data Image: Static Data Image: Static Data	
44097 0x1000 4096 Display/NMC Model Number 9 ASCII	
44106 0x1009 4105 Display/NMC Serial Number 8 ASCII	
44114 0x1011 4113 Display/NMC Firmware Revision APP 9 ASCII	
44123 0x101A 4122 Display/NMC Hardware Revision 9 ASCII 44123 0x1023 4121 Display/NMC Data of Manufacture 6 ASCII	
44132 0x1023 4131 Display/NMC Date of Manufacture 6 ASCII 44138 0x1029 4137 RESERVED 8 6 Contract of Manufacture 6 ASCII 6 ASCII 6 Contract of Manufacture Contract of Manufacture 6 Contract of Manufacture	
44136 0x1029 4137 RESERVED 8 8 6 ASCII 44146 0x1031 4145 UPS Serial Number 6 ASCII 1	
44152 0x1037 4151 UPS Firmware Version 12 ASCII	
44164 0x1043 4163 Product Name 40 ASCII 40	
44204 0x106B 4203 UPS Serial Number for 14 characters 8 ASCII for new 3-phases UPS, using	
Dynamic Data	14 characters
44353 0x1100 4352 RESERVED 2 2	14 characters
44355 0x1102 4354 Runtime remaining 2 UINT32 1 1 Seconds 44357 0x1104 4356 Estimated charge time 2 UINT32 1 1 Seconds	14 characters
44357 0x1104 4356 Estimated charge time 2 0ix152 1 1 Seconds 44359 0x1106 4358 Estimated charge % 1 UINT16 1 1 %	14 characters

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Modicon Standard Register Number	Absolute Starting Register Address, (Hexa-decimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	Data Type	Sc Multiply Reading By:	Divide Reading By:	Valid Response
44360	0x1107	4359	Ì	RESERVED	8	İ	l		
44368	0x110F	4367		Battery Temperature (for classic battery solution)	1	UINT16	1	1	°C or °F
44369	0x1110	4368		Charger Mode	1				
			0	Float Charging		BOOLEAN			1=Charger mode is float charging
				Boost Charging		BOOLEAN			1=Charger mode is boost charging
			2	Reserved		BOOLEAN			
				Reserved		BOOLEAN			
				Reserved		BOOLEAN			
				Equalization Charging		BOOLEAN			1=Charger mode is equization charging
				Not Charging		BOOLEAN			1=Charger mode is Off
				Test In Progress Cyclic Charging		BOOLEAN BOOLEAN			1=Test is in progress 1=Charge mode is cyclic charging
				Reserved		BOOLEAN			T-Charge mode is cyclic charging
				Reserved		BOOLEAN			
				Reserved		BOOLEAN			
				Reserved		BOOLEAN			
			13	Reserved		BOOLEAN			
				Reserved		BOOLEAN			
			15	Reserved		BOOLEAN			
44370	0x1111	4369	_	Battery Power	1	UNIT16	0.1	10	kW
44371	0x1112	4370		RESERVED			0.4	40	
44372	0x1113	4371		Battery Voltage	1	UINT16	0.1	10	Vdc
44373	0x1114	4372		Battery Current, for GVX up to 1000kVA	1	UNIT16	0.1	10	Amps - Caution overflow possible. There is a current limitation [– 3276A, 3276A]. That register can be use for GVX up to 1000KVA. When GVX power rating exceed 1000 kVA (1250KVA and 1500kVA) used register 0x111D
44374	0x1115	4373		RESERVED	1	UINT16	1	1	
44375	0x1116	4374		RESERVED	1	UINT16	1	1	
44376	0x1117	4375		RESERVED	1	UINT16	1	1	
44377	0x1118	4376		RESERVED	1	UINT16	1	1	
44378	0x1119	4377		RESERVED	1	UINT16	1	1	
44379	0x111A	4378		RESERVED	1	UINT16	1	1	
44380	0x111B	4379		RESERVED	1	UINT16	1	1	
44381	0x111C	4380		RESERVED	1	UINT16	1	1	
44382	0x111D	4381		Battery Current, for all GVX power rating (from 250kVA up to 1500kVA)	1	UNT16	1	1	Amps - Recommended register for GVX. To be used when UPS power rating exceed 1000 kVA. This register supports all GVX power rating (from 250KVA up to 1500kVA).
44383	0x111E	4382		Battery Test Process Status		ENUM			0= Inactive 1= Battery Calibration is In Progress 2= Battery Calibration is Passed 5= Battery Calibration is Aborted
44384	0x111F	4383		Battery Calibration Process Status		ENUM			0= Inactive 1= Battery Calibration is In Progress 2= Battery Calibration is Passed 5= Battery Calibration is Aborted
44385	0x1120	4384		Battery Test Status		ENUM			0= Unknown 1= Battery OK 2= Battery CapacityReduced 3= Battery Defect
44609	0x1200	4608	\downarrow	Frequency (input)	1	UINT16	0.1	10	Hz
44610	0x1201	4609	4	Voltage L1-2 (input)	1	UINT16			Volts
44611	0x1202	4610		Voltage L2-3 (input)	1	UINT16	1	1	Volts
44612 44613	0x1203 0x1204	4611 4612	+	Voltage L3-1 (input) Current L1 (input)		UINT16 UINT16		1	Volts amps
44613	0x1204	4612	+	Current L2 (input)	1	UINT16		1	amps
44615	0x1205	4614		Current L3 (input)	1	UINT16	1	1	amps
44616	0x1200	4615		Active power L1 (input)	1	UINT16	1	1	kW
44617	0x1208	4616		Active power L2 (input)	1	UINT16	1	1	kW
44618	0x1209	4617		Active power L3 (input)	1	UINT16	1	1	kW
44619	0x120A	4618		Apparent power L1 (input)	1	UINT16	1		kVA
44620	0x120B	4619		Apparent power L2 (input)		UINT16	1		kVA
44621	0x120C	4620	+	Apparent power L3 (input)	1	UINT16	1	1	kVA
44622	0x120D	4621	-	Total active power (input)	1	UINT16 UINT16		1	kW kVA
44623 44624	0x120E 0x120F	4622 4623	+	Total apparent power (input) Voltage L1-N (input)		UINT16 UINT16		1	KVA Volts
44625	0x120F	4623	+	Voltage L2-N (input)		UINT16	1	1	Volts
44626	0x1210	4625	+	Voltage L3-N (input)	1 1	UINT16	1	1	Volts
44627	0x1211	4626	1	Maximum RMS Current L1 (input)	2	UINT32	1	1	amps
44629	0x1212	4628		Maximum RMS Current L2 (input)	2	UINT32	1	1	amps
44631	0x1216	4630		Maximum RMS Current L3 (input)	2	UINT32	1	1	amps
44633	0x1218	4632		Power factor L1 (input)	1	UINT16	0.01	100	Unitless
44634	0x1219	4633	\downarrow	Power factor L2 (input)	1	UINT16	0.01	100	Unitless
44635	0x121A	4634	-	Power factor L3 (input)	1	UINT16	0.01	100	Unitless
44865	0x1300	4864		Frequency (bypass)	1	UINT16	0.1	10	Hz
44866	0x1301	4865		Voltage L1-2 (bypass)	1	UINT16	1	1	Volts

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Modicon Standard Register Number	Absolute Starting Register Address, (Hexa-decimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	Data Type	Multiply Reading By:	Divide Reading By:	Valid Response
44867	0x1302	4866	i	Voltage L2-3 (bypass)	1	UINT16	1	1	Volts
44868	0x1303	4867		Voltage L3-1 (bypass)	1	UINT16	1	1	Volts
44869	0x1304	4868		Current L1 (bypass)	1	UINT16	1	1	amps
44870	0x1305	4869		Current L2 (bypass)	1	UINT16 UINT16	1	1	amps
<u>44871</u> 44872	0x1306 0x1307	<u>4870</u> 4871		Current L3 (bypass) Active power L1 (bypass)	1	UINT16	1	1	amps kW
44873	0x1308	4872		Active power L2 (bypass)	1	UINT16	1	1	kW
44874	0x1309	4873		Active power L3 (bypass)	1	UINT16	1	1	kW
44875	0x130A	4874		Apparent power L1 (bypass)	1	UINT16	1	1	kVA
44876	0x130B	4875		Apparent power L2 (bypass)	1	UINT16	1	1	kVA
<u>44877</u> 44878	0x130C 0x130D	4876 4877		Apparent power L3 (bypass) Total active power (bypass)	1	UINT16 UINT16	1		kVA kW
44879	0x130E	4878		Total apparent power (bypass)	1	UINT16	1	1	kVA
44880	0x130F	4879		Voltage L1-N (bypass)	1	UINT16	1	1	Volts
44881	0x1310	4880	_	Voltage L2-N (bypass)	1	UINT16	1	1	Volts
<u>44882</u> 44883	0x1311 0x1312	4881 4882		Voltage L3-N (bypass) Maximum RMS Current L1 (bypass)	2	UINT16 UINT32	1	1	Volts
44883	0x1312 0x1314	4882 4884		Maximum RMS Current L1 (bypass) Maximum RMS Current L2 (bypass)	2	UINT32 UINT32	1	1	amps amps
44887	0x1314	4886	1	Maximum RMS Current L3 (bypass)	2	UINT32	1	1	amps
44889	0x1318	4888		Power factor L1 (bypass)	1	UINT16	0.01	100	Unitless
44890	0x1319	4889		Power factor L2 (bypass)	1	UINT16	0.01	100	Unitless
44891 44892	0x131A 0x131B	4890 4891		Power factor L3 (bypass) UTHD - Voltage THD L1 (bypass)	1	UINT16 UINT16	0.01	100 10	Unitless %
44893	0x131D	4892		UTHD - Voltage THD L1 (bypass)	1	UINT16	0.1	10	70 9⁄0
44894	0x131D	4893		UTHD - Voltage THD L3 (bypass)	1	UINT16	0.1	10	%
45121	0x1400	5120		UPS Power Rating	1	UINT16	1	1	kVA
45122	0x1401	5121	_	Frequency (output)	1	UINT16	0.1	10	Hz
<u>45123</u> 45124	0x1402 0x1403	5122 5123		Voltage L1-2 (output) Voltage L2-3 (output)	1	UINT16 UINT16	1	1	Volts Volts
45125	0x1403	5123	-	Voltage L2-3 (output)	1	UINT16	1	1	Volts
45126	0x1405	5125		Current L1 (output)	1	UINT16	1	1	amps
45127	0x1406	5126		Current L2 (output)	1	UINT16	1	1	amps
45128	0x1407 0x1408	5127		Current L3 (output) Maximum RMS current L1 (output)	1	UINT16	1	1	amps
<u>45129</u> 45131	0x1408 0x140A	5128 5130	_	Maximum RMS current L2 (output)	2	UINT32 UINT32	1	1	amps amps
45133	0x140C	5132		Maximum RMS current L3 (output)	2	UINT32	1	1	amps
45135	0x140E	5134		Active power L1 (output)	1	UINT16	1	1	kW
<u>45136</u> 45137	0x140F 0x1410	5135 5136		Active power L2 (output) Active power L3 (output)	1	UINT16 UINT16	1	1	kW kW
45137	0x1410	5130	-	Apparent power L1 (output)	1	UINT16	1	1	kvv
45139	0x1412	5138		Apparent power L2 (output)	1	UINT16	1	1	kVA
45140	0x1413	5139		Apparent power L3 (output)	1	UINT16	1	1	kVA
45141	0x1414	5140		Apparent power percent L1 (output)	1	UINT16 UINT16	0.1	10 10	%
<u>45142</u> 45143	0x1415 0x1416	5141 5142	-	Apparent power percent L2 (output) Apparent power percent L3 (output)	1	UINT16 UINT16	0.1	10	% %
45144	0x1417	5143		Total active power (output)	1	UINT16	1	1	kW
45145	0x1418	5144		Total apparent power (output)	1	UINT16	1	1	kVA
45146	0x1419	5145		Total Output Percent load	1	UINT16	0.1	10	%
<u>45147</u> 45148	0x141A 0x141B	<u>5146</u> 5147		Power factor L1 (output) Power factor L2 (output)	1	UINT16 UINT16	0.01	100 100	power factor power factor
45148	0x141B 0x141C	5147	-	Power factor L2 (output)	1	UINT16	0.01	100	power factor
45150	0x141D	5149		Current crest factor L1 (output)	1	UINT16	0.1	10	crest factor
45151	0x141E	5150		Current crest factor L2 (output)	1	UINT16	0.1	10	crest factor
45152 45153	0x141F 0x1420	5151 5152		Current crest factor L3 (output) Voltage L1-N (output)	1	UINT16 UINT16	0.1	10	crest factor Volts
45153	0x1420 0x1421	5152	+	Voltage L2-N (output)	1	UINT16 UINT16	1	1	Volts
45155	0x1421	5154	1	Voltage L3-N (output)	1	UINT16	1	1	Volts
45156	0x1423	5155		Neutral current (output)	1	UINT16	1	1	amps
45157	0x1424	5156	_	Current THD L1 (output)	1	UINT16	0.1	10	% 0/
45158 45159	0x1425 0x1426	5157 5158		Current THD L2 (output) Current THD L3 (output)	1	UINT16 UINT16	0.1	10	>0 0/6
45160	0x1420	5159	-	IOC Power Rating	1	UINT16	1	1	⁷⁰ kVA
45161	0x1428	5160		Available UPS Power Rating	1	UINT16	1	1	kVA
45376	0x14FF	5375		RESERVED	1	UINT16	1	1	
<u>45377</u> 45378	0x1500 0x1501	5376 5377		IOC Ambient temperature Switch gear status	1	UINT16	1		°C or °F Bit mask For each bit, 0 = open, 1 =closed
	↓			Unit Input Breaker (UIB)		BOOLEAN			
	+			Unit Output Breaker (UOB) Maintenance Bypass Breaker (MBB)		BOOLEAN BOOLEAN		1	
			3	System Isolation Breaker (SIB)		BOOLEAN			
				Static Switch Input Breaker (SSIB)		BOOLEAN			
l			5	Battery Breaker 1 (for classic battery solution)		BOOLEAN			<u> </u>

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Modicon Standard Register Number	Absolute Starting Register Address, (Hexa-decimal)	Absolute Starting Register Address, (Decimal)	Bit Data Point	Length # registers	Data Type	Multiply Reading By:	Divide Reading By:	Valid Response
			6 Battery Breaker 2 (for classic battery solution)		BOOLEAN			
			7 Battery Breaker 3 (for classic battery solution)		BOOLEAN			
			8 Battery Breaker 4 (for classic battery solution)		BOOLEAN			
			9 BF2 10 Reserved		BOOLEAN BOOLEAN			
			11 Reserved		BOOLEAN			
			12 Reserved		BOOLEAN			
			13 Reserved		BOOLEAN			
			14 Reserved		BOOLEAN			
			15 Reserved		BOOLEAN			
45379	0x1502	5378	UPS Operation Mode	1	ENUM			0 Reserved 1 = Normal operation 2 = Battery Operation 3 = Battery Test 4 = Requested Static Bypass 5 = Forced Static Bypass 6 = Maintenance Bypass 7 = Off 8 = Emergency Static Bypass 9 = Static Bypass Standby 10 = Inverter Standby 11 = Power Saving Mode 12 = Inverter SPoT Mode 13 = ECO Mode 14 = ECOnversion 15 = Charger SPoT Mode 16 = Battery discharge SPoT Mode 17 = Distributed Energy Reserved Mode
45380	0x1503	5379	Number of Active Alarms	1	UINT16	1	1	Number of active alarms in the system
45381	0x1504	5380	Highest alarm severity	1	UINT16	1	1	0 = none 1 = informational 2 = warning <u>3 = fritical</u>
45382	0x1505	5381	System Mode	1	ENUM			2 = Requested Static Bypass 3 = Forced Static Bypass 4 = Off 5 = Reserved 6 = Maintenance Bypass 7 = ECO Mode 8 = ECOnversion 9 = Static Bypass Standby
45383	0x1506	5382	RESERVED	3				
45385	0x1508	5384	UPS Redundancy Status	1	UINT16	1	1	
45386	0x1509	5385	NMC/UPS Time	4	ASCII			hh:mm:ss format
45390	0x150D	5389	NMC/UPS Date	5	ASCII	4	4	mm/dd/yyyy format
45395 45397	0x1512 0x1514	5394 5396	Input kWh Output kWh	2	UINT32 UINT32	1		kWh kWh
45397 45399	0x1514 0x1516	5396	IOC Exhaust Air Temperature	<u> </u>	UINT32 UINT16	1		KWh °C or °F
45400	0x1517	5399	Ambient Temperature from Power Cabinet [1]		UINT16	1		°C or °F
45401	0x1518	5400	Exhaust Temperature from Power Cabinet [1]	1	UINT16	1	1	°C or °F
45402	0x1519	5401	Ambient Temperature from Power Cabinet [2]	1	UINT16	1		°C or °F
45403	0x151A	5402	Exhaust Temperature from Power Cabinet [2]		UINT16	1		
45404 45405	0x151B 0x151C	5403 5404	Ambient Temperature from Power Cabinet [3] Exhaust Temperature from Power Cabinet [3]		UINT16 UINT16	1		°C or °F °C or °F
40400			Ambient Temperature from Power Cabinet [5]		UINT16 UINT16	1		°C or °F
	0x151D	5405		1 1 1		•		
45406 45407	0x151D 0x151E	5405 5406	Exhaust Temperature from Power Cabinet [4]	1	UINT16	1	I I	°C or °F
45406 45407 45408	0x151E 0x151F	5406 5407	Exhaust Temperature from Power Cabinet [4] Ambient Temperature from Power Cabinet [5]	1 1 1	UINT16	1	1	°C or °F
45406 45407 45408 45409	0x151E 0x151F 0x1520	5406 5407 5408	Exhaust Temperature from Power Cabinet [4] Ambient Temperature from Power Cabinet [5] Exhaust Temperature from Power Cabinet [5]		UINT16 UINT16	1 1 1	1	°C or °F °C or °F
45406 45407 45408 45409 45410	0x151E 0x151F 0x1520 0x1521	5406 5407 5408 5409	Exhaust Temperature from Power Cabinet [4] Ambient Temperature from Power Cabinet [5] Exhaust Temperature from Power Cabinet [5] Ambient Temperature from Power Cabinet [6]		UINT16 UINT16 UINT16	1 1 1 1	1 1 1	°C or °F °C or °F °C or °F
45406 45407 45408 45409 45410 45411	0x151E 0x151F 0x1520 0x1521 0x1522	5406 5407 5408 5409 5410	Exhaust Temperature from Power Cabinet [4] Ambient Temperature from Power Cabinet [5] Exhaust Temperature from Power Cabinet [5] Ambient Temperature from Power Cabinet [6] Exhaust Temperature from Power Cabinet [6]		UINT16 UINT16 UINT16 UINT16	1 1 1 1 1 1	1 1 1 1	°C or °F °C or °F °C or °F °C or °F
45406 45407 45408 45409 45410 45411 45412	0x151E 0x151F 0x1520 0x1521 0x1522 0x1522 0x1523	5406 5407 5408 5409 5410 5411	Exhaust Temperature from Power Cabinet [4] Ambient Temperature from Power Cabinet [5] Exhaust Temperature from Power Cabinet [5] Ambient Temperature from Power Cabinet [6] Exhaust Temperature from Power Cabinet [6] Ambient Temperature from Power Cabinet [6] Ambient Temperature from Power Cabinet [6]	1 1 1 1 1 1 1 1 1 1 1	UINT16 UINT16 UINT16 UINT16 UINT16	1 1 1 1 1 1 1 1	1 1 1 1 1	°C or °F °C or °F °C or °F °C or °F °C or °F
45406 45407 45408 45409 45410 45411	0x151E 0x151F 0x1520 0x1521 0x1522	5406 5407 5408 5409 5410	Exhaust Temperature from Power Cabinet [4] Ambient Temperature from Power Cabinet [5] Exhaust Temperature from Power Cabinet [5] Ambient Temperature from Power Cabinet [6] Exhaust Temperature from Power Cabinet [6]	1 1 1 1 1 1 1 1 1 1 1 1	UINT16 UINT16 UINT16 UINT16	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	°C or °F °C or °F °C or °F °C or °F
45406 45407 45408 45409 45410 45411 45412 45413 45413 45414 46401	0x151E 0x151F 0x1520 0x1521 0x1522 0x1523 0x1523 0x1524 0x1525 0x1900	5406 5407 5408 5409 5410 5411 5412 5413 6400	Exhaust Temperature from Power Cabinet [4] Ambient Temperature from Power Cabinet [5] Exhaust Temperature from Power Cabinet [5] Ambient Temperature from Power Cabinet [6] Exhaust Temperature from Power Cabinet [6] Ambient Temperature from Power Cabinet [6] Exhaust Temperature from Power Cabinet [7] Exhaust Temperature from Power Cabinet [7] Power Cabinet Redundancy Status Current L1 (parallel system mains input)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	°C or °F °C or °F °C or °F °C or °F °C or °F °C or °F °C or °F
45406 45407 45408 45409 45410 45411 45412 45413 45413 45414 46401 46402	0x151E 0x151F 0x1520 0x1521 0x1522 0x1523 0x1523 0x1524 0x1525 0x1900 0x1901	5406 5407 5408 5409 5410 5411 5412 5413 6400 6401	Exhaust Temperature from Power Cabinet [4] Ambient Temperature from Power Cabinet [5] Exhaust Temperature from Power Cabinet [5] Ambient Temperature from Power Cabinet [6] Exhaust Temperature from Power Cabinet [6] Ambient Temperature from Power Cabinet [6] Exhaust Temperature from Power Cabinet [7] Exhaust Temperature from Power Cabinet [7] Power Cabinet Redundancy Status Current L1 (parallel system mains input) Current L2 (parallel system mains input)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16	1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	°C or °F °C or °F °C or °F °C or °F °C or °F °C or °F °C or °F °C or °F °C or °F or 7 amps amps
45406 45407 45408 45409 45410 45411 45412 45413 45413 45414 46401 46402 46403	0x151E 0x151F 0x1520 0x1521 0x1522 0x1523 0x1523 0x1524 0x1525 0x1900 0x1901 0x1902	5406 5407 5408 5409 5410 5411 5412 5413 6400 6401 6402	Exhaust Temperature from Power Cabinet [4] Ambient Temperature from Power Cabinet [5] Exhaust Temperature from Power Cabinet [5] Ambient Temperature from Power Cabinet [6] Exhaust Temperature from Power Cabinet [6] Ambient Temperature from Power Cabinet [7] Exhaust Temperature from Power Cabinet [7] Exhaust Temperature from Power Cabinet [7] Power Cabinet Redundancy Status Current L1 (parallel system mains input) Current L2 (parallel system mains input) Current L3 (parallel system mains input)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16	1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1	°C or °F °C or °F
45406 45407 45408 45409 45410 45411 45412 45413 45413 45414 46401 46402 46403 46403	0x151E 0x151F 0x1520 0x1521 0x1522 0x1523 0x1523 0x1524 0x1525 0x1900 0x1901 0x1902 0x1903	5406 5407 5408 5409 5410 5411 5412 5413 6400 6401 6402 6403	Exhaust Temperature from Power Cabinet [4] Ambient Temperature from Power Cabinet [5] Exhaust Temperature from Power Cabinet [5] Ambient Temperature from Power Cabinet [6] Exhaust Temperature from Power Cabinet [6] Ambient Temperature from Power Cabinet [7] Exhaust Temperature from Power Cabinet [7] Exhaust Temperature from Power Cabinet [7] Power Cabinet Redundancy Status Current L1 (parallel system mains input) Current L3 (parallel system mains input) Current L1 (parallel system mains input) Current L1 (parallel system mains input) Current L1 (parallel system mains input)	$ \begin{array}{c c} 1 \\ $	UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16	1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1	°C or °F °C or °F
45406 45407 45408 45409 45410 45411 45412 45413 45413 45414 46401 46402 46403 46403 46404 46405	0x151E 0x151F 0x1520 0x1521 0x1522 0x1523 0x1524 0x1525 0x1900 0x1901 0x1903 0x1904	5406 5407 5408 5409 5410 5411 5412 5413 6400 6401 6402 6403 6404	Exhaust Temperature from Power Cabinet [4]Ambient Temperature from Power Cabinet [5]Exhaust Temperature from Power Cabinet [5]Ambient Temperature from Power Cabinet [6]Exhaust Temperature from Power Cabinet [6]Ambient Temperature from Power Cabinet [7]Exhaust Temperature from Power Cabinet [7]Exhaust Temperature from Power Cabinet [7]Power Cabinet Redundancy StatusCurrent L1 (parallel system mains input)Current L2 (parallel system mains input)Current L1 (parallel system mains input)Current L2 (parallel system bypass input)Current L2 (parallel system bypass input)Current L2 (parallel system bypass input)	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1	°C or °F °C or °F °C or °F °C or °F °C or °F °C or °F °C or °F 0 - 7 amps
45406 45407 45408 45409 45410 45411 45412 45413 45414 46401 46402 46403 46404 46405 46406	0x151E 0x151F 0x1520 0x1521 0x1522 0x1523 0x1523 0x1524 0x1525 0x1900 0x1901 0x1901 0x1902 0x1903 0x1904 0x1905	5406 5407 5408 5409 5410 5411 5412 5413 6400 6401 6402 6403 6403 6404 6405	Exhaust Temperature from Power Cabinet [4] Ambient Temperature from Power Cabinet [5] Exhaust Temperature from Power Cabinet [5] Ambient Temperature from Power Cabinet [6] Exhaust Temperature from Power Cabinet [6] Ambient Temperature from Power Cabinet [7] Exhaust Temperature from Power Cabinet [7] Exhaust Temperature from Power Cabinet [7] Power Cabinet Redundancy Status Current L1 (parallel system mains input) Current L2 (parallel system mains input) Current L3 (parallel system bypass input) Current L2 (parallel system bypass input) Current L3 (parallel system bypass input) Current L2 (parallel system bypass input) Current L3 (parallel system bypass input) Current L3 (parallel system bypass input)	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1	°C or °F °C or °F
45406 45407 45408 45409 45410 45411 45412 45413 45413 45414 46401 46402 46403 46403 46404 46405	0x151E 0x151F 0x1520 0x1521 0x1522 0x1523 0x1524 0x1525 0x1900 0x1901 0x1903 0x1904	5406 5407 5408 5409 5410 5411 5412 5413 6400 6401 6402 6403 6404	Exhaust Temperature from Power Cabinet [4]Ambient Temperature from Power Cabinet [5]Exhaust Temperature from Power Cabinet [5]Ambient Temperature from Power Cabinet [6]Exhaust Temperature from Power Cabinet [6]Ambient Temperature from Power Cabinet [7]Exhaust Temperature from Power Cabinet [7]Exhaust Temperature from Power Cabinet [7]Power Cabinet Redundancy StatusCurrent L1 (parallel system mains input)Current L2 (parallel system mains input)Current L1 (parallel system mains input)Current L2 (parallel system bypass input)Current L2 (parallel system bypass input)Current L2 (parallel system bypass input)	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16 UINT16	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	°C or °F °C or °F °C or °F °C or °F °C or °F °C or °F °C or °F 0 - 7 amps

	+						Sc	alı T
Modicon Standard Register Number	Absolute Starting Register Address, (Hexa-decimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	Data Type	Multiply Reading By:	
46410	0x1909	6409		Total apparent power (parallel system output)	1	UINT16	1	İ
46411	0x190A	6410		Total Percent load (parallel system)	1	UINT16	0.1	
46412	0x190B	6411		Total active power (parallel system output)	1	UINT16	1	L
46413	0x190C	6412		Apparent power percent L1 (parallel system output)	1	UINT16	0.1	L
46414	0x190D	6413		Apparent power percent L2 (parallel system output)	1	UINT16	0.1	┢
46415	0x190E	6414		Apparent power percent L3 (parallel system output)	1	UINT16	0.1	┢
46416	0x190F	6415		Reserved	-			┢
46417	0x1910	6416		Reserved Reserved				┢
<u>46418</u> 46419	0x1911 0x1912	6417 6418		Reserved				┢
46420	0x1912	6419		UPS Operation Modes	1			┢
40420	021913	0419	0	Initialize		BOOLEAN		┢
			1	Normal Operation		BOOLEAN		┢
			2	Battery Operation		BOOLEAN		┢
			3	Battery test or Battery Discharge in Spot Mode		BOOLEAN		┢
			4	Requested Static Bypass		BOOLEAN		t
			5	Forced Static Bypass		BOOLEAN		T
			6	Maintenance Bypass		BOOLEAN		Γ
			7	Off		BOOLEAN		Γ
			8	Emergency Static Bypass		BOOLEAN		Ĺ
			9	Static Bypass Standby		BOOLEAN		Ĺ
			10	Inverter standby	 	BOOLEAN		╞
			11	Power Saving mode		BOOLEAN		┡
			12	Inverter SPoT Mode	-	BOOLEAN		┢
			13	ECO mode		BOOLEAN		┢
				ECOnvertion Mode mode		BOOLEAN BOOLEAN		┢
46421	0x1914	6420	15	Charger SPoT Mode System Mode	1	BUULEAN		┢
40421	021914	0420	0	Inverter		BOOLEAN		┢
			1	Requested Static Bypass		BOOLEAN		┢
			2	Forced Static Bypass		BOOLEAN		┢
			3	Off		BOOLEAN		┢
				Maintenance Bypass		BOOLEAN		t
			5	ECO mode		BOOLEAN		T
			6	ECOnversion mode		BOOLEAN		T
			7	Static Bypass Standby Operation		BOOLEAN		Γ
			8	Reserved		BOOLEAN		
			9	Reserved		BOOLEAN		L
				Reserved		BOOLEAN		┢
				Reserved		BOOLEAN		╞
				Reserved		BOOLEAN		╞
				Reserved		BOOLEAN		╞
				Reserved		BOOLEAN		┢
46422	0x1915	6421	15	Reserved Reserved	1	BOOLEAN UINT16	1	┢
46422	0x1915 0x1916	6422		Reserved		UINT16 UINT16	1	┢
46423	0x1916	6422		Reserved	1	UINT16	1	+
46425	0x1918	6424		Reserved	1 1	UINT16	1	\vdash
46426	0x1910	6425		Reserved	1 1	UINT16	1	\vdash
46427	0x1918	6426		Reserved	1	UINT16	1	\vdash
46428	0x191B	6427		Reserved	1	UINT16	1	T
46429	0x191C	6428		Reserved	1	UINT16	1	Γ
46430	0x191D	6429		Reserved	1	UINT16	1	Γ
46431	0x191E	6430		Sensor temperature in sensor 1	1	UINT16	0.1	ſ
46432	0x191F	6431		Sensor temperature in sensor 2	1	UINT16	0.1	Ĺ
46433	0x1920	6432		Sensor humidity in sensor 1	1	UINT16	0.1	Ļ
46434	0x1921	6433		Sensor humidity in sensor 2	1	UINT16	0.1	F
46435	0x1922	6434		Sensor (AP9810) input contact status	1			
			0	Sensor dry contact A in sensor 1	1	BOOLEAN		T
			1	Sensor dry contact B in sensor 1	1	BOOLEAN		Γ
			2	Sensor dry contact A in sensor 2		BOOLEAN		Γ
			3	Sensor dry contact B in sensor 2		BOOLEAN		Γ
			4	Reserved		BOOLEAN		Γ
			5	Reserved		BOOLEAN		Γ
				Reserved		BOOLEAN		Γ
			7	Reserved		BOOLEAN		ſ
				Reserved		BOOLEAN		Ĺ
			-	Reserved		BOOLEAN		Ļ
				Reserved	ļ	BOOLEAN		\downarrow
	<u> </u>		-	Reserved	 	BOOLEAN		Ļ
				Reserved		BOOLEAN		Ļ
				Reserved		BOOLEAN		-

)	
Divide Reading By:	Valid Response
1	kVA
10	KVA
	%
10	kW
10	% %
10	%
10	%
	bit = 1, define current UPS operation mode
_	
	bit = 1, define current System mode
1	
1	
1	
1	
1	
1	
1	
1	
1 10	°C or °F
10	°C or °F
10	%
10	%
	Bit mask
	For each bit,
	0 = open, 1 =closed

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Modicon Standard Register Number	Absolute Starting Register Address, (Hexa-decimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	Data Type	Multiply Reading By:	Divide Reading By:	Valid Response
			14	Reserved		BOOLEAN			
			15	Reserved		BOOLEAN			
10110									Inoperable (Red) = 4
46449	0x1930	6448		User interface - Input Pictogram	1	UINT16	1	1	Ok and operating (Green) = 2 None of the above (Black) = 0
					1	UNTIO	1		Inoperable (Red) = 4
46450	0x1931	6449		User interface - PFC Pictogram					Ok and operating (Green) = 2
					1	UINT16	1	1	None of the above (Black) = 0
46451	0x1932	6450		User interface - Battery Pictogram					Inoperable (Red) = 4 Ok and operating (Green) = 2
40431	071932	0430			1	UINT16	1	1	None of the above (Black) = 0
									Inoperable (Red) = 4
46452	0x1933	6451		User interface - Inverter Pictogram					Ok and operating (Green) = 2
					1	UINT16	1	1	None of the above (Black) = 0 Inoperable (Red) = 4
46453	0x1934	6452		User interface - Output Pictogram					Ok and operating (Green) = 2
					1	UINT16	1	1	None of the above (Black) = 0
40453		0.150							Inoperable (Red) = 4
46454	0x1935	6453		User interface - Bypass Input Pictogram	1	UINT16	1	1	Ok and operating (Green) = 2 None of the above (Black) = 0
	+ +								Inoperable (Red) = 4
46455	0x1936	6454		User interface - Static Bypass Pictogram					Ok and operating (Green) = 2
10.1=5		A / - -			1	UINT16	1	1	None of the above (Black) = 0
46456	0x1937	6455		Status for mimic animation	1	UINT16	1	1	
				Aggregated Battery circuit breaker status Reserved		BOOLEAN BOOLEAN			0 = open, 1 =closed
				Reserved		BOOLEAN			
			3	Reserved		BOOLEAN			
				Reserved		BOOLEAN			
				Reserved Reserved		BOOLEAN BOOLEAN			
				Reserved		BOOLEAN			
				Reserved		BOOLEAN			
				Reserved		BOOLEAN			
				Reserved Reserved		BOOLEAN BOOLEAN			
				Reserved		BOOLEAN			
				Reserved		BOOLEAN			
				Reserved Reserved		BOOLEAN BOOLEAN			
46457	0x1938	6456	13	Power Cabinet status for UPS detailled view animation	1	UINT16	1	1	
				Warning alarm present in Power Cabinet 1		BOOLEAN			1 = warning alarm present in Power Cabinet 1 (Orange)
				Critical alarm present in Power Cabinet 1		BOOLEAN			1 = critical alarm present Power Cabinet 1 (Red)
				Warning alarm present in Power Cabinet 2 Critical alarm present in Power Cabinet 2		BOOLEAN BOOLEAN			1 = warning alarm present in Power Cabinet 2 (Orange) 1 = critical alarm present Power Cabinet 2 (Red)
				Warning alarm present in Power Cabinet 2		BOOLEAN			1 = warning alarm present in Power Cabinet 3 (Orange)
			5	Critical alarm present in Power Cabinet 3		BOOLEAN			1 = critical alarm present Power Cabinet 3 (Red)
				Warning alarm present in Power Cabinet 4		BOOLEAN			1 = warning alarm present in Power Cabinet 4 (Orange)
	+			Critical alarm present in Power Cabinet 4 Warning alarm present in Power Cabinet 5		BOOLEAN BOOLEAN		1	1 = critical alarm present Power Cabinet 4 (Red) 1 = warning alarm present in Power Cabinet 5 (Orange)
	++			Critical alarm present in Power Cabinet 5		BOOLEAN			1 = critical alarm present Power Cabinet 5 (Red)
			10	Warning alarm present in Power Cabinet 6		BOOLEAN			1 = warning alarm present in Power Cabinet 6 (Orange)
	<u>T</u>			Critical alarm present in Power Cabinet 6		BOOLEAN			1 = critical alarm present Power Cabinet 6 (Red)
	+			Warning alarm present in Power Cabinet 7 Critical alarm present in Power Cabinet 7		BOOLEAN BOOLEAN			1 = warning alarm present in Power Cabinet 7 (Orange) 1 = critical alarm present Power Cabinet 7 (Red)
	+ +			Reserved		BOOLEAN			
			15	Reserved		BOOLEAN			
46458	0x1939	6457		Power Cabinet status for UPS detailled view animation	1	UINT16	1	1	4 – informational alarma present in Device Ochinet 4
	+ +		1	informational alarm present in Power Cabinet 1 informational alarm present in Power Cabinet 2		BOOLEAN BOOLEAN			1 = informational alarm present in Power Cabinet 1 2 = informational alarm present in Power Cabinet 2
	+ +		2	informational alarm present in Power Cabinet 2		BOOLEAN			3 = informational alarm present in Power Cabinet 3
			3	informational alarm present in Power Cabinet 4		BOOLEAN			4 = informational alarm present in Power Cabinet 4
	<u>T</u>			informational alarm present in Power Cabinet 5		BOOLEAN			5 = informational alarm present in Power Cabinet 5
	+			informational alarm present in Power Cabinet 6 informational alarm present in Power Cabinet 7		BOOLEAN BOOLEAN			6 = informational alarm present in Power Cabinet 6 7 = informational alarm present in Power Cabinet 7
	++			Reserved		BOOLEAN			
			8	Reserved		BOOLEAN			
				Reserved		BOOLEAN			
	<u> </u>			Reserved		BOOLEAN			
	+ +			Reserved Reserved		BOOLEAN BOOLEAN		1	
				Reserved		BOOLEAN			
			14	Reserved		BOOLEAN			
	I		15	Reserved		BOOLEAN			

Modicon Standard Register Number	Absolute Starting Register Address, (Hexa-decimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	Data Type	Multiply Reading By:	R
Configuration								
Data	0	0400						
48193	0x2000	8192 8195		RESERVED RESERVED	3			–
48196 48198	0x2003 0x2005	8195		RESERVED	1			
48199	0x2005	8198		RESERVED				+
48200	0x2007	8199		Breaker settings	1			
			0	breaker Q1 (UIB)		BOOLEAN		
			1	breaker Q2 (UOB)		BOOLEAN		
			2	Q3 (MBB)		BOOLEAN		
			3	Q4 (SIB)		BOOLEAN		<u> </u>
			4	Q5 (SSIB)		BOOLEAN		
			5	BB1 BB2		BOOLEAN BOOLEAN		–
			6	BB2 BB3		BOOLEAN		–
			8	BB3 BB4		BOOLEAN		+
			9	BF2		BOOLEAN		+
	<u>† </u>		10	Reserved		BOOLEAN		+
			11	Reserved		BOOLEAN		\vdash
				Reserved		BOOLEAN		\uparrow
				Reserved		BOOLEAN		1
				Reserved		BOOLEAN		
				Reserved		BOOLEAN		
48201	0x2008	8200		Temperature unity	1	ENUM		
					-			–
48202	0x2009	8201	0	UPS environment settings	1	BOOLEAN		╂──
			0	Input transformer presence Output transformer presence		BOOLEAN		
						BOOLEAN		+
			2	AC wiring configuration		BOOLEAN		
				UPS mains supply by single input		BOOLEAN		<u> </u>
				UPS mains supply by dual input		BOOLEAN		1
				Reserved		BOOLEAN		
			6	Reserved		BOOLEAN		
			7	Reserved		BOOLEAN		
				Reserved		BOOLEAN		
				Reserved		BOOLEAN		<u> </u>
				Reserved		BOOLEAN		<u> </u>
				Reserved		BOOLEAN		
				Reserved Reserved		BOOLEAN		
				Reserved		BOOLEAN BOOLEAN		╂──
				Reserved		BOOLEAN		╉──
48203	0x200A	8202		SIB breaker label	2	ASCII		
48205	0x200A	8204	1	UIB breaker label	2	ASCII		\vdash
48207	0x200E	8206	<u> </u>	SSIB breaker label	2	ASCII		1
48209	0x2010	8208		MBB breaker label	2	ASCII		
48211	0x2012	8210		UOB breaker label	2	ASCII		
48213	0x2014	8212		BF2 breaker label	2	ASCII		\perp
48215	0x2016	8214		BB breaker label	2	ASCII		\perp
48217	0x2018	8216	 	UPS Name	9	ASCII	4	
48449	0x2100	8448		Low Battery Alarm Threshold	1	UINT16	1	
48450	0x2101	8449		Battery Type	1	ENUM	1	
48451	0x2102	8450		Battery Solution	1	ENUM	1	
48452	0x2103	8451		Deep Discharge Allowed	1	F NU 184	1	
		8452		Deep Discharge Allowed Total Battery Capacity	A	ENUM UINT16	1	+
48453 48454	0x2104 0x2105	8452	+	Reserved	1	UINT16 UINT16	1	+
48455	0x2105 0x2106	8454		Number of battery bank for Classical battery	1	UINT16	1	+
48705	0x2200	8704		Nominal Output Voltage	1	ENUM	1	
48706	0x2201	8705		Transfer to Static Bypass Disable	1	ENUM	1	<u> </u>
48707	0x2202	8706	-	Reserved		ENUM	1	T

Divide Reading By:	Valid Response
	bit = 1, breaker is present
	0 = Celcius
	1 = Fahrenheit
	bit = 1, transformer is present
	bit = 1, transformer is present bit = 0, input cabling 3 wires
	bit = 0, input cabling 3 wires
	bit = 1, input cabling 4 wires bit = 1, mains supply input is single
	bit = 1, mains supply input is dual
	4 bytes string = 2 registers, Default value "SIB "
	4 bytes string = 2 registers, Default value UIB " 4 bytes string = 2 registers, Default value "SSIB"
	4 bytes string = 2 registers, Default value "MBB "
	4 bytes string = 2 registers, Default value "UOB "
	4 bytes string = 2 registers, Default value "BF2 " 4 bytes string = 2 registers, Default value "BB "
	18 bytes string = 8 registers
1	Seconds
	0=VRLA
1	1=Open Cell 2=Lithium-Ion
	3=NiCd
	6=NiZn
	0=None 1=Classic
	2=NA
1	3=Unknown 0=No
	1=Yes
1	Ah
1	
	Unitless 0=380V
	1=400V
1	2=415V
	3=480V
	0=Disable 1=Enable
1	

							Sc	ale			
Modicon Standard Register Number	Absolute Starting Register Address, (Hexa-decimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	Data Type	Multiply Reading By:	Divide Reading By:	Valid Response		
48708	0x2203	8707		Automatic Battery Disconnect	1	ENUM	1	1	0=No 1=Yes		
48709	0x2204	8708		High Efficiency Mode	1	ENUM	1	1	0=Disable 1=ECO mode 2=ECOnversion 3=ECOnversion Harmonics Compensator		
48710	0x2205	8709		Reserved	1		1	1			
48711	0x2206	8710		Number of UPS installed in a parallel installation	1	UINT16					
48712	0x2207	8711		Number of redundant UPS installed in a parallel installation	1	UINT16					
48713	0x2208	8712		Number of redundant Power Cabinet installed in a UPS	1	UINT16					
48714	0x2209	8713		UPSs presence in parallel installation	1						
									bit = 0, UPS 1 not present		
			0	UPS 1 presence		BOOLEAN			bit = 1, UPS 1 is present		
									bit = 0, UPS 2 not present		
			1	UPS 2 presence		BOOLEAN			bit = 1, UPS 2 is present		
									bit = 0, UPS 3 not present		
			2	UPS 3 presence		BOOLEAN			bit = 1, UPS 3 is present		
									bit = 0, UPS 4 not present		
			3	UPS 4 presence		BOOLEAN			bit = 1, UPS 4 is present		
									bit = 0, UPS 5 not present		
				UPS 5 presence		BOOLEAN			bit = 1, UPS 5 is present		
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
	+			Reserved		BOOLEAN					
				Reserved		BOOLEAN					
			15	Reserved		BOOLEAN					
48715	0x220A	8714		Frequency Converter Mode	1	ENUM	1	1	0=Disable 1=Enable		
									0=None		
48716	0x220B	8715		Energy Storage Type	1	ENUM	1	1	1=Battery		
									2=Flywheel		
48717	0x220C	8716		Number Power Cabinet on the left of IO Cabinet	1	UINT16	1	1			
48718	0x220D	8717		Continuous Overload Mode Setting	1	UINT16	1	1	%		
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