

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

990-5915A

Register Map release	Touch screen or NMC firmware release	Date	Description details
0	667		initial release
А	682	November 2019	. New alarm: High Efficiency mode is disable due to bypass UTHD . New alarm: UOB Aux wiring not correct . New alarm: Continuous Overload . New alarm: Engineering Firmware Version detected . New input contact: Force battery operation . New input contact: Requested Bypass command from relay . New setting: Continuous Overload Mode Setting . New measurements: 3 phases Bypass UTHD in percent . New measurements: 3 phases UPS output percent . New measurements: 3 phases UPS output percent . New measurements: 3 phases Output percent

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.

								S	cale	
Release	Modicon Standard Register Number	Absolute Starting Register Address, (Hexa-decimal)	Register Address,	Bit	Data Point	Length # registers	Data Type	Multiply Reading By:	Divide Reading By:	Valid Response
	Status Data									
	40002	0x0001	1		UPS Status	1				
				0	UPS operation mode - Battery		BOOLEAN			1=UPS operation mode - Battery
				1	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		BOOLEAN			
					High Efficiency Mode disable by system		BOOLEAN			1=High Efficiency Mode (ECO, ECOnversion) disable by system
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Battery inoperable		BOOLEAN			1=Battery inoperable
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Informational alarm present		BOOLEAN			1=Informational alarm present
					Warning alarm present	1	BOOLEAN			1=Warning alarm present
				15	Critical alarm present		BOOLEAN	ļ		1=Critical alarm present
	10000	0.0000			AL D			ļ		
	40003	0x0002	2		Alarm Register	1				

								S	cale	
	Modicon Standard	Absolute Starting	Absolute Starting	Π		Length	Data Type	Multiply	Divide	
Release	Register Number	Register Address,	Register Address,			# registers	,,,,,	Reading		
		(Hexa-decimal)	(Decimal)	Bit	Data Point			By:	By:	Valid Response
								Ī		1=Lost local network management interface - to - UPS communication
					Lost local network management interface - to - UPS communication		BOOLEAN			
					Display communication is lost		BOOLEAN			1=Main Controller is unable to communicate with the display 1=Parallel communication incorrect on PBUS cable 1
					Parallel communication incorrect on PBUS cable 1		BOOLEAN			
					Parallel communication incorrect on PBUS cable 2		BOOLEAN	1		1=Parallel communication incorrect on PBUS cable 2
					MegaTie activation alarm Reserved		BOOLEAN BOOLEAN			1=MegaTie activation is present
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved Reserved		BOOLEAN BOOLEAN	-		
					Reserved		BOOLEAN			
					Communication cable termination incorrect		BOOLEAN			1=Communication cable termination incorrect
					General parallel system incorrect		BOOLEAN			1=General parallel system incorrect
					Lost parallel redundancy Reserved		BOOLEAN BOOLEAN	-		1=Lost parallel redundancy
				13	i lesel veu		BOOLEAN			
	40004	0x0003	3		Alarm Register					
				0	Reserved		BOOLEAN			
				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 Reserved		BOOLEAN BOOLEAN	-		1=UPS operation mode - Maintenance Bypass
					UPS operation mode - Off		BOOLEAN			1=UPS operation mode - Off
				6	UPS operation mode - Initialize		BOOLEAN			1=UPS operation mode - Initialize
					Reserved		BOOLEAN			
					Reserved Reserved		BOOLEAN BOOLEAN	-		
					Reserved		BOOLEAN			
					Input phase sequence incorrect		BOOLEAN			1=Input phase sequence incorrect
					Input frequency out of range		BOOLEAN			1=Input frequency out of range
					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	0	Alarm Register Reserved	1	BOOLEAN			
					Reserved		BOOLEAN			
				2	Reserved		BOOLEAN			
					Bypass frequency out of range		BOOLEAN			1=Bypass frequency out of range
					Bypass phase sequence incorrect Reserved		BOOLEAN BOOLEAN			1=Bypass phase sequence incorrect
					Reserved		BOOLEAN			
				7	Reserved		BOOLEAN			
		1			Overload on UPS Overload on Static bypass switch	 	BOOLEAN			1=Overload on UPS
<u> </u>		 			Ambient temperature out of range	 	BOOLEAN BOOLEAN			1=Overload on Static bypass switch 1=Ambient temperature out of range
		1			EPO Switch Activated		BOOLEAN			1=EPO Switch activated
				12	Ground fault detected		BOOLEAN			1=Ground fault detected
		1			Reserved	ļ	BOOLEAN BOOLEAN	1		1. Purpose voltage is out of range
A					Bypass voltage out of range High Efficiency mode is disable due to bypass UTHD	 	BOOLEAN	1		1=Bypass voltage is out of range 1=Bypass UTHD is out of range for High Efficiency Mode
				Ľ						Ap
	40006	0x0005	5	Ļ	Alarm Register	1	D00: =:::			
		-			System locked in bypass operation Batteries are discharging	 	BOOLEAN BOOLEAN			1=System locked in bypass operation 1=Batteries are discharging
					Reserved		BOOLEAN	1		1-battorioo aro disorialiying
				თ	Reserved		BOOLEAN			
Α					Continuous Overload on UPS	<u> </u>	BOOLEAN		<u> </u>	1=Overload on UPS present. Load below Continuous Overload Threshold.
-		 			Charge power is reduced Reserved	1	BOOLEAN BOOLEAN			1=Charge power is reduced
-					Reserved	1	BOOLEAN			
				8	Reserved		BOOLEAN			
					Reserved		BOOLEAN			
				10	Reserved	l	BOOLEAN	l	1	

									cale	
	Modicon Standard	Absolute Starting	Absolute Starting			Length	Data Type	Multiply	Divide	
Release	Register Number	Register Address,	Register Address,			# registers		Reading By:	Reading By:	
		(Hexa-decimal)	(Decimal)	Bit	Data Point			Dy.	Dy.	Valid Response
		I		11	Reserved	1	BOOLEAN			
					Battery condition is weak		BOOLEAN			1=Battery condition is weak
				13	Battery condition is poor		BOOLEAN			1=Battery condition is poor
					Reserved		BOOLEAN			
				15	Battery capacity is below minimum acceptable level		BOOLEAN			1=Battery capacity is below minimum acceptable level
	10007	0.0000	_		B ::					
	40007	0x0006	6		Alarm Register	1	DOOL FAN			
					Reserved Reserved		BOOLEAN BOOLEAN			
					Reserved	+	BOOLEAN			
					Reserved		BOOLEAN			
		1			Reserved	1	BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
		-			Reserved		BOOLEAN			
		 			Reserved		BOOLEAN	-		
		-			Reserved Reserved		BOOLEAN BOOLEAN			
		 			Reserved		BOOLEAN	1		
		+			Reserved		BOOLEAN			
					Power cabinet redundancy lost		BOOLEAN			1=Power cabinet redundancy lost
i				Ť	·· ·· · · · · · · · · · · · · · · · ·					
	40008	0x0007	7		Alarm Register	1				
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Ambient temperature high		BOOLEAN			1 = Ambient temperature is high
		-			Overload on UPS due to high ambient temperature	-	BOOLEAN BOOLEAN			1 = Overload on UPS due to high ambient temperature
					Output frequency out of range Output voltage out of range	+	BOOLEAN			1=Output frequency out of range 1=Output voltage is out of range
					Reserved	+	BOOLEAN			1=Output voltage is out of range
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
				11	Reserved		BOOLEAN			
					Overload on installation		BOOLEAN			1=Overload on installation
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
				15	Reserved	-	BOOLEAN			
	40009	0x0008	8	<u> </u>	Alarm Pagistar	- 1	-			
	40009	UXUUU8			Alarm Register Reserved	+ '	BOOLEAN			
		+			Reserved		BOOLEAN			
		1			Reserved		BOOLEAN			
i					Reserved		BOOLEAN			
				4	Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
		.			Reserved		BOOLEAN			
		 			Reserved		BOOLEAN	-		
		-			Reserved Reserved		BOOLEAN BOOLEAN			
Α		 			UOB Auxiliary wiring not correct		BOOLEAN			1= UOB Aux wiring is not correct
А		+			Reserved		BOOLEAN			TE SOD NUM WITING TO HOL COTTOOL
		1			Reserved		BOOLEAN			
		1			Reserved		BOOLEAN			
				Ė						
	40010	0x0009	9		Alarm Register	1				
			· ·	0	Reserved		BOOLEAN			
					Reserved		BOOLEAN			
				2	Reserved		BOOLEAN			
		-			Reserved		BOOLEAN			
		 			Reserved		BOOLEAN			
		1	ı	0	Reserved		BOOLEAN	1	1	

Static bypass switch warning	Valid Response
Checked Chec	Valid Response
Searred	Valid Response
9 Unit Unit Breaker (UB) open BOOLEAN 1-Unit Unit Breaker (UB) open BOOLEAN 1-Maintenance Bypas Breaker (MBB) closed BOOLEAN 1-System Isolation Breaker (SIB) open BOOLEAN 1-System Isolation Breaker (Breaker (Break	
10 Unit Ouput Breaker (UOB) open	un)
11 Maintenance Bypass Breaker (MBB) closed BOOLEAN 1=Maintenance Bypass Breaker (MBB) closed BOOLEAN 1=System Isolation Breaker (SIB) open BOOLEAN 1=Static Switch Input Breaker (SSIB) open BOOLEAN 1=Static Switch Input I	
12 System Isolation Breaker (SIB) open	
13 Static Switch Input Breaker (SSIB) open	
15 Reserved BOOLEAN	
40011 0x000A 10	
1 Reserved BOOLEAN B	
Seserved	
4 Reserved BOOLEAN	
S Reserved BOOLEAN SOOLEAN SOOLEAN Reserved BOOLEAN SOOLEAN SOOLEAN	
BOOLEAN BOOL	
The served South The served	
Static bypass switch inoperable	
10 Reserved BOOLEAN	h has a critical alarm that prevents it from operating
11 Reserved BOOLEAN	h has an alarm with severity level warning
12 Reserved BOOLEAN	
13 Reserved BOOLEAN	
14 Reserved BOOLEAN	
15 Reserved BOOLEAN	
40014	
40014	
0 Reserved BOOLEAN	
0 Reserved BOOLEAN	
1 Reserved BOOLEAN	
3 Reserved BOOLEAN BOOLEAN	
4 Battery room ventilation inoperable BOOLEAN 1=Battery room ventilation ventilation inoperable 5 Reserved BOOLEAN 1=Battery room ventilation ventilation inoperable	ation inoperable
5 Reserved BOOLEAN	
7 Reserved BOOLEAN	
8 Reserved BOOLEAN	
9 Reserved BOOLEAN	
10 External battery monitoring alarm BOOLEAN 1=External battery mo	nitoring alarm
12 Reserved BOOLEAN BOOLEAN BOOLEAN	
12 Treserved BOOLEAN BOOLEAN	
14 Reserved BOOLEAN BOOLEAN	
15 Reserved BOOLEAN	
40015 0x000E 14 Alarm Register 1 BOOLEAN	
40015 0x000E 14 Alarm Register 1 BOOLEAN BOOLEAN BOOLEAN	
1 Reserved BOOLEAN	
2 Reserved BOOLEAN BOOLEAN	
3 High Battery Temperature Level BOOLEAN 1=Battery temperature	
4 Low Battery Temperature Level BOOLEAN 1=Battery temperature	e below alarm setting
5 Reserved BOOLEAN 6 Reserved BOOLEAN	
0 neserved BOOLEAN	
8 Reserved BBOLEAN	
9 Reserved BOOLEAN	
10 Reserved BOOLEAN .	
11 Battery breaker BB1 open BOOLEAN 1=Battery breaker BB1	
12 Battery breaker BB2 open BOOLEAN 1=Battery breaker BB2 13 Battery breaker BB3 open BOOLEAN 1=Battery breaker BB3	
13 Battery breaker BB3 open BOOLEAN I =Battery breaker BB. 14 Battery breaker BB4 open BOOLEAN 1 =Battery breaker BB.	3 open

									cale	
	Modicon Standard	Absolute Starting	Absolute Starting			Length	Data Type	Multiply	Divide	
Release	Register Number	Register Address,	Register Address,			# registers		Reading	Reading	
		(Hexa-decimal)	(Decimal)	Bit	Data Point			By:	By:	Valid Response
	40016	0x000F	15	П	Alarm Register	1				
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
		-			Reserved Reserved	-	BOOLEAN BOOLEAN			
+					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Breaker BF2 open		BOOLEAN			1= breaker BF2 open
					Reserved		BOOLEAN			•
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
+	40016	0x000F	15	10	Reserved RESERVED	1	BOOLEAN	1		
	40010	UAUUUF	10	\vdash	I LOLI IVED	+ '				
	40017	0x0010	16		Alarm Register	1				
					UPS operation mode - Static bypass standby		BOOLEAN			1=UPS operation mode - Static bypass standby
				1	UPS operation mode - Inverter standby		BOOLEAN			1=UPS operation mode - Inverter standby
	•			2	Reserved		BOOLEAN			
					Reserved	ļ	BOOLEAN			
					General UPS settings incorrect		BOOLEAN			1=General UPS settings incorrect
					UPS configuration incorrect		BOOLEAN			1=UPS general configuration is incorrect
					Synchronization unavailable Fan inoperable		BOOLEAN BOOLEAN			1=Synchronization unavaliable - system is free running 1=UPS has one or more inoperable fans. Fan redundancy is lost.
					Inverter is Off due to a request by the user		BOOLEAN			1= Inverter is Off due to a request by the user
					Restricted air flow		BOOLEAN			1=Restricted air flow
		1			Surveillance detected a fault		BOOLEAN			1=Surveillance detected a fault
1					Charger status		BOOLEAN			1=Inoperable
				12	Inverter status		BOOLEAN			1=Inoperable
					PFC status		BOOLEAN			1=Inoperable
					Battery status		BOOLEAN			1=Inoperable
				15	Reserved		BOOLEAN			
	40018	0x0011	17		Alarm Register	1				
	40010	0,0011	17		Technical check recommended	<u>'</u>	BOOLEAN			1=Technical check recommended
					Start-up recommended		BOOLEAN			1= Secure start-up recommended
					Warranty expiring soon		BOOLEAN			1=Warranty expiring soon
				3	Reserved		BOOLEAN			
					Air filter check recommened		BOOLEAN			1=Air filter check recommened
					Reserved	1	BOOLEAN			
					Reserved	<u> </u>	BOOLEAN			
		-			Reserved Reserved	-	BOOLEAN BOOLEAN			
		 			Reserved	+	BOOLEAN			
					Reserved	1	BOOLEAN			
		1			Reserved	1	BOOLEAN			
					Reserved		BOOLEAN			
	•				Reserved		BOOLEAN			
	·	ļ			Reserved		BOOLEAN			
				15	Reserved	 	BOOLEAN			
	40010	0,0012	10	-	DECEDVED	1				
	40019	0x0012	18	<u> </u>	RESERVED	+ '	-			
	40020	0x0013	19	\vdash	Alarm Register	1				
	70020	0,0010			Reserved	+ '-	BOOLEAN			
		1			Reserved	1	BOOLEAN			
1					Reserved	1	BOOLEAN			
				3	Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Not enough UPSs ready to turn on inverter	ļ	BOOLEAN			1=Not enough UPSs ready to turn on inverter
					Parallel UPS 1 not present	1	BOOLEAN			1=Parallel UPS 1 not present
					Parallel UPS 2 not present Parallel UPS 3 not present	1	BOOLEAN BOOLEAN			1=Parallel UPS 2 not present 1=Parallel UPS 3 not present

Relation Resident Application Services (Register Address) (Register Address) (Register Address) (Register Address) (Residential Project Address) (Resident								Sc	cale	
Region Region Region Administ Region Administ Region Region Region Regions Reg	Modicon Standard	Absolute Starting	Absolute Starting			Length	Data Type			
Personal URS and present Post P	D 11 N 1		Register Address,				,,,	Reading		
		(Hexa-decimal)	(Decimal)	Bit	Data Point	_		By:	By:	Valid Response
16 Practice UPS 5 not present 15 SOCIEAN 1-Farriel UPS 5 not present 15 SOCIEAN 1-Farriel Immedio particle mode 17 Septem operation mode 18 SOCIEAN 1-Farriel Immedio particle mode 19 SOCIEAN 1-Farriel Immediate 19			1	0	Devalled LIDC 4 met myseemt		DOOL FAN			1 Pavellal LIDC 4 not procent
11 Parallel mixed sporation mode 12 Parallel mixed sporation mode 12 Parallel mixed sporation mode 13 Parallel mixed 14 Parallel mixed sporation mode 15 Parallel mixed 15										
15 Firmware versions in parallel UPS units are not identical 800.EAN 1-Firmware versions in parallel UPS units are not identical 800.EAN 14 Repended 800.EAN 15 Repended 800.EAN										
13 Reserved										
1										
40021				14	Reserved					
40022				15	Reserved		BOOLEAN			
40022	40004	0.0014	00		DEGERVED					
	40021	0x0014	20		RESERVED	1				
	40022	0×0015	21		Alarm Register	1				
1 System operation mode - Forced state bypass SOCLEAN 1 = System operation mode - Forced state bypass SOCLEAN 1 = System operation mode - Requested state bypass SOCLEAN 1 = System operation mode - Requested state bypass SOCLEAN 1 = System operation mode - Requested state bypass SOCLEAN 1 = System operation mode - Maintenance bypass SOCLEAN 1 = System operation mode - Maintenance bypass SOCLEAN 1 = System operation mode - Maintenance bypass SOCLEAN 1 = System operation mode - Maintenance bypass SOCLEAN 1 = System operation mode - State Bypass Standby SOCLEAN 1 = System operation mode - State Bypass Standby SOCLEAN	40022	0,0015	21			<u> </u>	BOOLEAN			1 = System operation mode - Off
2 System operation mode - Requested static bypass 1										
4 System operation mode - Static Bypass Standby 6 Reserved 7 Reserved 8 BOOLEAN 9 Reserved 10 BOOLEAN 11 Reserved 10 BOOLEAN 11 Reserved 10 BOOLEAN 11 Reserved 11 Reserved 11 Reserved 11 Reserved 11 Reserved 12 Reserved 13 Reserved 14 Reserved 15 Reserved 16 BOOLEAN 16 Reserved 17 Reserved 18 BOOLEAN 18 Reserved 19 Reserved 10 BOOLEAN 19 Reserved 10 BOOLEAN 11 Reserved 10 BOOLEAN 11 Reserved 11 Reserved 11 Reserved 12 Reserved 13 Reserved 14 Reserved 15 Reserved 16 BOOLEAN 16 Reserved 17 Reserved 18 BOOLEAN 17 Reserved 18 BOOLEAN 18 Reserved 19 BOOLEAN 19 Reserved 10 Reserved				2	System operation mode - Requested static bypass		BOOLEAN			
6 Reserved										
6 Reserved BOOLEAN 7 Reserved BOOLEAN 8 Reserved BOOLEAN 9 Reserved BOOLEAN 10 Reserved BOOLEAN 11 Reserved BOOLEAN 11 Reserved BOOLEAN 12 Reserved BOOLEAN 13 Reserved BOOLEAN 14 Reserved BOOLEAN 15 Reserved BOOLEAN 16 Reserved BOOLEAN 17 Reserved BOOLEAN 18 Reserved BOOLEAN 19 Reserved BOOLEAN 19 Reserved BOOLEAN 10 Reserved BOOLEA										1 = System operation mode - Static Bypass Standby
7 Reserved BOOLEAN 8 Reserved BOOLEAN 10 Reserved BOOLEAN 11 Reserved BOOLEAN 11 Reserved BOOLEAN 12 Reserved BOOLEAN 13 Reserved BOOLEAN 14 Reserved BOOLEAN 15 Reserved BOOLEAN 16 Reserved BOOLEAN 17 Reserved BOOLEAN 18 Reserved BOOLEAN 19 Reserved BOOLEAN 10 Reserved BOOLEAN 10 Reserved BOOLEAN 10 Input missing phase BOO										
8 Reserved BOOLEAN 10 Reserved BOOLEAN 10 Reserved BOOLEAN 11 Reserved BOOLEAN 12 Reserved BOOLEAN 13 Reserved BOOLEAN 14 Reserved BOOLEAN 14 Reserved BOOLEAN 15 Reserved BOOLEAN 16 Reserved BOOLEAN 17 Reserved BOOLEAN 18 Reserved BOOLEAN 1						1				
9 Reserved BOOLEAN	+					1		-	1	
10 Reserved BOOLEAN 11 Reserved BOOLEAN 12 Reserved BOOLEAN 12 Reserved BOOLEAN 13 Reserved BOOLEAN										
11 Reserved						1				
13 Reserved										
14 Reserved				12	Reserved		BOOLEAN			
15 Reserved 800LEAN 1 1 1 1 1 1 1 1 1										
40023										
Double D				15	Heserved		BOOLEAN			
Description	40023	0×0016	22		Alarm Pogietor	1				
1 Bypass missing phase BOOLEAN 1=Bypass input is missing a phase 2 External sync voltage out of range BOOLEAN 1=External sync voltage is out of range BOOLEAN 1=External sync ortage is out of range BOOLEAN 1=External sync ortage is out of range BOOLEAN 1=External sync frequency is out of range BOOLEAN 1=Inverter inoppraible BOOLEAN 1=Inverter inoppraible BOOLEAN 1=Inverter output is not in phase with bypass input BOOLEAN 1=Inverter output is not in phase with bypass input BOOLEAN 1=Inverter output is not in phase with bypass input BOOLEAN 1=Inverter output is not in phase with bypass input BOOLEAN 1=Inverter output is not in phase with bypass input BOOLEAN 1=Inverter output is not in phase with bypass input BOOLEAN 1=Inverter output is not in phase with bypass input BOOLEAN 1=Inverter output is not in phase with bypass input BOOLEAN 1=Inverter output is not in phase with bypass input BOOLEAN 1=Inverter output is not in phase with bypass input 1=Inverter output is not in phase with bypass input 1=Inverter output is not in phase with bypass input 1=Inverter output is not in phase with bypass input	40023	0,0010	22			'	BOOL FAN			1=Input is missing a phase
Separate										
External sync frequency out of range BOOLEAN 1=External sync frequency is out of range										
5 External sync missing phase 6 External sync temporarily disabled 7 Flywheel inoperable 8 Display firmware incompatibility detected 8 Display firmware incompatibility detected 9 NMC 1 firmware incompatibility detected 10 NMC 2 firmware incompatibility detected 11 10-Inch display incompatibility detected 11 11										
6 External sync temporarily disabled BOOLEAN 1=External sync temporarily disabled 7 Flywheel inoperable BOOLEAN 1=Flywheel inoperable BOOLEAN 1=Flywheel inoperable BOOLEAN 1=Flywheel inoperable BOOLEAN 1=Flywheel inoperable 1=Flywheel inoperable BOOLEAN 1=Flywheel inoperable 1=Flywheel inoperable BOOLEAN 1=Flywheel inoperable 1=Flywheel inoperabl										
T Flywheel inoperable BOOLEAN 1=Flywheel inoperable										
8 Display firmware incompatibility detected BOOLEAN 1=Display firmware incompatibility detected BOOLEAN 1=NMC 1 firmware incompatibility detected BOOLEAN 1=NMC 1 firmware incompatibility detected BOOLEAN 1=NMC 2 firmware incompatibility detected BOOLEAN 1=NMC 2 firmware incompatibility detected BOOLEAN 1=10 inch Display firmware incompatibility detected 1=10										
9 NMC 1 firmware incompatibility detected BOOLEAN 1=NMC 1 firmware incompatibility detected BOOLEAN 1=NMC 2 firmware incompatibility detected 1=NMC 2 firmwa	- 					1				
10 NMC 2 firmware incompatibility detected										1=NMC 1 firmware incompatibility detected
12 Inverter output is not in phase with bypass input BOOLEAN 1=Inverter output is not in phase with bypass input BOOLEAN 1=Alarm Engineering Firmware Version detected BOOLEAN 1=Alarm Engineering Firmware Version detected BOOLEAN										
A							BOOLEAN			1=10 inch Display firmware incompatibility detected
14 Reserved BOOLEAN										
15 Reserved BOOLEAN	A									1=Alarm Engineering Firmware Version detected
40024										
0 Reserved BOOLEAN Reserved BOOLEAN Reserved	+			15	neserveu	1	BOOLEAN	-	1	
0 Reserved BOOLEAN Reserved BOOLEAN	40024	0x0017	23		Alarm Register	1		1	1	
1 Reserved BOOLEAN 2 Reserved BOOLEAN 3 Reserved BOOLEAN 4 Reserved BOOLEAN 5 Reserved BOOLEAN 6 Reserved BOOLEAN 7 Reserved BOOLEAN 8 Reserved BOOLEAN 9 Reserved BOOLEAN 8 Reserved BOOLEAN 8 Reserved BOOLEAN 9 Reserved BOOLEAN						<u> </u>	BOOLEAN			
3 Reserved										
4 Reserved BOOLEAN										
5 Reserved BOOLEAN						1				
6 Reserved BOOLEAN										
7 Reserved BOOLEAN 8 Reserved BOOLEAN 9 Reserved BOOLEAN	+					1		-	1	
8 Reserved BOOLEAN 9 Reserved BOOLEAN	+					1				
9 Reserved BOOLEAN						1				
				9	Reserved		BOOLEAN			
10 Reserved BOOLEAN		· · · · · ·		10	Reserved					
11 Reserved BOOLEAN	\longrightarrow									
12 Reserved BOOLEAN COLUMN										
13 Reserved BOOLEAN						1				
14 Reserved BOOLEAN	+					1		-	1	
TO RESERVED.	-			10	THOUSE VOG	<u> </u>	DOOLEAN	1	1	
40025 0x0018 24 Alarm Register 1	40025	0x0018	24		Alarm Register	1				
0 Reserved BOOLEAN							BOOLEAN			
1 Reserved BOOLEAN				1	Reserved		BOOLEAN			

								So	cale	
	Modicon Standard	Absolute Starting	Absolute Starting			Length	Data Type	Multiply	Divide	
Release	Register Number	Register Address,	Register Address,			# registers		Reading	Reading	
11010000	Ü	(Hexa-decimal)	·	Bit	Data Point	Ů		By:	By:	Valid Response
								<u> </u>	<u> </u>	тана теоронов
					Reserved		BOOLEAN			
					Reserved Reserved		BOOLEAN BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved Reserved		BOOLEAN BOOLEAN			
				10	neserveu		BOOLEAN			
	40026	0x0019	25		Alarm Register	1				
	10020	0,0010			Sensor AP9810 - Input contact A in sensor 1	-	BOOLEAN	-		1 = Alarm from sensor 1 / contact A
					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	1	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		BOOLEAN			1 = temperature alarm in sensor 1
					Sensor AP9335T or AP9335TH - temperature alarm in sensor 2		BOOLEAN			1 = temperature alarm in sensor 2
					Sensor AP9335TH - humidity alarm in sensor 1		BOOLEAN			1 = humidity alarm in sensor 1
					Sensor AP9335TH - humidity alarm in sensor 2		BOOLEAN			1 = humidity alarm in sensor 2
					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 Reserved		BOOLEAN BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
				15	Reserved		BOOLEAN			
	40027	0x0020	26		Alarm Register	1				
					Power Cabinet 1 surveillance detected a fault		BOOLEAN			1 = Power Cabinet 1 surveillance detected a fault
					Power Cabinet 2 surveillance detected a fault		BOOLEAN			1 = Power Cabinet 2 surveillance detected a fault
					Power Cabinet 3 surveillance detected a fault Power Cabinet 4 surveillance detected a fault		BOOLEAN BOOLEAN			1 = Power Cabinet 3 surveillance detected a fault 1 = Power Cabinet 4 surveillance detected a fault
					Power Cabinet 4 surveillance detected a fault		BOOLEAN			1 = Power Cabinet 4 surveillance detected a rault 1 = Power Cabinet 5 surveillance detected a fault
					Power Cabinet 6 surveillance detected a fault		BOOLEAN			1 = Power Cabinet 5 surveillance detected a fault 1 = Power Cabinet 6 surveillance detected a fault
					Power Cabinet 7 surveillance detected a fault		BOOLEAN			1 = Power Cabinet 8 surveillance detected a rault 1 = Power Cabinet 7 surveillance detected a rault
					Reserved		BOOLEAN			1 - 1 Ower Gabinet / Garvemande detected a radit
					Power Cabinet 1 inoperable		BOOLEAN			1 = Power cabinet inoperable
					Power Cabinet 2 inoperable		BOOLEAN			1 = Power cabinet inoperable
				10	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	ļ	1	1 = Power cabinet inoperable
					Power Cabinet 7 inoperable		BOOLEAN	ļ		1 = Power cabinet inoperable
				15	Reserved		BOOLEAN			
	40028	0x0021	27		Alarm Register	1				
	40020	UAUUZ I	۲1	0	Input dry contact: Genset supplying UPS		BOOLEAN	1		1= a Genset supply the UPS
				1	Input dry contact: Genset supplying or 3 Input dry contact: Battery room ventilation inoperable		BOOLEAN	1	1	1= Battery room ventilation inoperable
				2	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		BOOLEAN			1= UPS locked in static bypass mode is actived
					Input dry contact: User-defined input dry contacts 1		BOOLEAN			1= User-defined input dry contacts 1, in alarm position
					Input dry contact: User-defined input dry contacts 2		BOOLEAN			1= User-defined input dry contacts 2, in alarm position
					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		1	1= Disable High Efficiency Mode
Α					Input dry contact: Transfer from Battery to Normal Operation delay Input dry contact: Force Battery Operation		BOOLEAN BOOLEAN			1=Transfer from Battery to Normal Operation delay 1=Force Battery Operation
A					Input dry contact: Porce Battery Operation Input dry contact: Request Bypass operation		BOOLEAN			1=Requested Bypass command from input relay activated
				. 7	input any contact. Hogicot bypaco operation	1	LOOLLAN	1	1	toquosta Sypuso commune mem input relay activated

									Scale	
	Modicon Standard	Absolute Starting	Absolute Starting			Length	Data Type		Divide	
Release	Register Number	Register Address,	Register Address,			# registers		Reading		
		(Hexa-decimal)	(Decimal)	Bit	Data Point			By:	By:	Valid Response
				15	Reserved		BOOLEAN			
						•				
	Static Data	0:4000	4000		District AMA Market Niverbarr	_	4000	-		
	44097 44106	0x1000 0x1009	4096 4105		Display/NMC Model Number Display/NMC Serial Number	9	ASCII ASCII	-		
	44114	0x1003	4113		Display/NMC Firmware Revision APP	9	ASCII	1	1	
	44123	0x101A	4122		Display/NMC Hardware Revision	9	ASCII			
	44132	0x1023	4131		Display/NMC Date of Manufacture	6	ASCII			
	44138	0x1029	4137		RESERVED	8				
	44146 44152	0x1031 0x1037	4145 4151		UPS Serial Number UPS Firmware Version	6 12	ASCII	1		
	44164	0x1037 0x1043	4163		Product Name	40	ASCII ASCII			
		0.00.0	1100		T Toddo: Traino	10	7.00	1	1	
	Dynamic Data									
	44353	0x1100	4352		RESERVED	2				
	44355	0x1102	4354		Runtime remaining	2	UINT32	1	1	Seconds
	44357 44359	0x1104 0x1106	4356 4358		Estimated charge time Estimated charge %	2	UINT32 UINT16	1	1 1	Seconds %
	44360	0x1106 0x1107	4358		RESERVED	8	OHVID	+ -	+ '-	//0
	44368	0x110F	4367		Battery Temperature (for classic battery solution)	1	UINT16	1	1	°C or °F
	44369	0x1110	4368		Charger Mode	1				
					Float Charging		BOOLEAN		<u> </u>	1=Charger mode is float charging
					Boost Charging Reserved		BOOLEAN			1=Charger mode is boost charging
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
				5	Equalization Charging		BOOLEAN			1=Charger mode is eqalization charging
					Not Charging		BOOLEAN			1=Charger mode is Off
					Test In Progress Cyclic Charging		BOOLEAN			1=Test is in progress
					Reserved		BOOLEAN			1=Charge mode is cyclic charging
					Reserved		BOOLEAN			
				11	Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved Reserved		BOOLEAN		-	
					Reserved		BOOLEAN			
	44370	0x1111	4369		Battery Power	1	INT16	0,1	10	kW
	44371	0x1112	4370		RESERVED	1				
	44372	0x1113	4371		Battery Voltage	1	UINT16	0,1	10	Vdc
	44373	0x1114	4372		Battery Current, for GVX up to 1000kVA	1	INT16	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 44378	0x1118 0x1119	4376 4377		RESERVED RESERVED	1 1	UINT16 UINT16	1	1	
	44378	0x1119 0x111A	4377		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	INT16	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		RESERVED	1	UINT16	1	1	
	44384 44385	0x111F 0x1120	4383 4384		RESERVED RESERVED	1	UINT16 UINT16	1	1	
	CÖC PP	UXIIZU	4004		ILOLITYLU	- '-	UINT 16	+	+ '-	
	44609	0x1200	4608		Frequency (input)	1	UINT16	0,1	10	Hz
	44610	0x1201	4609		Voltage L1-2 (input)	1	UINT16	1	1	Volts
	44611	0x1202	4610		Voltage L2-3 (input)	1	UINT16		1	Volts
	44612 44613	0x1203 0x1204	4611		Voltage L3-1 (input)	1	UINT16	1	1	Volts
	44613 44614	0x1204 0x1205	4612 4613		Current L1 (input) Current L2 (input)	1	UINT16 UINT16	1	1	amps amps
	44615	0x1205	4614		Current L3 (input)	1	UINT16		1	amps
	-1-010	071200	7017		ouron to (input)		CHALLO			Jampo

									Scale		
	Modicon Standard	Absolute Starting	Absolute Starting			Length	Data Type	Multiply	_	ride	
Release	Register Number	Register Address,	Register Address,			# registers	7,1	Reading	Rea	ding	
110,0000	Ü	(Hexa-decimal)	-	Bit	Data Point			By:	E	y:	Valid Response
	44010	0.4007	4615			1	LUNTAG	1	+		kW
	44616 44617	0x1207 0x1208	4616		Active power L1 (input) Active power L2 (input)	1	UINT16 UINT16	1			kW
	44618	0x1209	4617		Active power L3 (input)	1	UINT16	1			kW
	44619	0x120A	4618		Apparent power L1 (input)	1	UINT16	1			kVA
	44620	0x120B	4619		Apparent power L2 (input)	1	UINT16	1			kVA
	44621	0x120C	4620		Apparent power L3 (input)	1	UINT16	1			kVA
	44622	0x120D	4621		Total active power (input)	1	UINT16	1		1	kW
	44623 44624	0x120E 0x120F	4622 4623		Total apparent power (input) Voltage L1-N (input)	1	UINT16	1		1	kVA Volts
	44625	0x120F 0x1210	4624		Voltage L1-N (input) Voltage L2-N (input)	1	UINT16 UINT16	1			Volts
	44626	0x1211	4625		Voltage L3-N (input)	1	UINT16	1			Volts
	44627	0x1212	4626		Maximum RMS Current L1 (input)	2	UINT32	1			amps
	44629	0x1214	4628		Maximum RMS Current L2 (input)	2	UINT32	1		1	amps
	44631	0x1216	4630		Maximum RMS Current L3 (input)	2	UINT32	1			amps
	44633	0x1218	4632		Power factor L1 (input)	1	UINT16	0,01		00	Unitless
ļ	44634 44635	0x1219	4633 4634	<u> </u>	Power factor L2 (input)	1	UINT16	0,01		00	Unitless
	44035	0x121A	4034	-	Power factor L3 (input)	<u> </u>	UINT16	0,01	+ 1	00	Unitless
	44865	0x1300	4864	-	Frequency (bypass)	1	UINT16	0,1	+ -	0	Hz
	44866	0x1301	4865		Voltage L1-2 (bypass)	1	UINT16	1	1		Volts
	44867	0x1302	4866		Voltage L2-3 (bypass)	1	UINT16	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 44871	0x1305	4869 4870	<u> </u>	Current L2 (bypass)	1 1	UINT16	1	_	1	amps
	44871	0x1306 0x1307	4870 4871		Current L3 (bypass) Active power L1 (bypass)	1	UINT16 UINT16	1			amps kW
	44873	0x1307 0x1308	4872		Active power L1 (bypass) Active power L2 (bypass)	1	UINT16	1			kW
	44874	0x1309	4873		Active power L3 (bypass)	1	UINT16	1			kW
	44875	0x130A	4874		Apparent power L1 (bypass)	1	UINT16	1			kVA
	44876	0x130B	4875		Apparent power L2 (bypass)	1	UINT16	1			kVA
	44877	0x130C	4876		Apparent power L3 (bypass)	1	UINT16	1			kVA
	44878	0x130D	4877		Total active power (bypass)	1	UINT16	1			kW
	44879 44880	0x130E 0x130F	4878 4879	-	Total apparent power (bypass) Voltage L1-N (bypass)	1	UINT16 UINT16	1			kVA Volts
	44881	0x130F 0x1310	4880		Voltage L1-N (bypass) Voltage L2-N (bypass)	1	UINT16	1			Volts
	44882	0x1311	4881		Voltage L3-N (bypass)	1	UINT16	1			Volts
	44883	0x1312	4882		Maximum RMS Current L1 (bypass)	2	UINT32	1			amps
	44885	0x1314	4884		Maximum RMS Current L2 (bypass)	2	UINT32	1		1	amps
	44887	0x1316	4886		Maximum RMS Current L3 (bypass)	2	UINT32	1			amps
	44889	0x1318	4888	-	Power factor L1 (bypass)	1	UINT16	0,01			Unitless
	44890 44891	0x1319 0x131A	4889 4890		Power factor L2 (bypass) Power factor L3 (bypass)	1	UINT16 UINT16	0,01		00	Unitless Unitless
A	44892	0x131A	4891		UTHD - Voltage THD L1 (bypass)	1	UINT16	0,01		0	%
A	44893	0x131C	4892		UTHD - Voltage THD L2 (bypass)	1	UINT16	0,1			%
Α	44894	0x131D	4893		UTHD - Voltage THD L3 (bypass)	1	UINT16	0,1			%
											-
	45121	0x1400	5120	<u> </u>	UPS Power Rating	1	UINT16	1	Ψ.		kVA
	45122 45123	0x1401 0x1402	5121 5122	<u> </u>	Frequency (output) Voltage L1-2 (output)	1	UINT16 UINT16	0,1	+	0	Hz Volts
	45123 45124	0x1402 0x1403	5122	<u> </u>	Voltage L1-2 (output) Voltage L2-3 (output)	1	UINT16	1	+	1	Volts
	45125	0x1403	5124		Voltage L3-1 (output)	1	UINT16	1	+		Volts
	45126	0x1405	5125		Current L1 (output)	1	UINT16	1	L	1	amps
	45127	0x1406	5126		Current L2 (output)	1	UINT16	1		1	amps
	45128	0x1407	5127	<u> </u>	Current L3 (output)	1	UINT16	1		1	amps
	45129	0x1408	5128	<u> </u>	Maximum RMS current L1 (output)	2	UINT32	1		•	amps
	45131 45133	0x140A 0x140C	5130 5132	<u> </u>	Maximum RMS current L2 (output) Maximum RMS current L3 (output)	2	UINT32 UINT32	1	+		amps amps
	45135	0x140C 0x140E	5134	-	Active power L1 (output)	1	UINT16	1	+		amps kW
	45136	0x140F	5135		Active power L2 (output)	1	UINT16	1	1		kW
	45137	0x1410	5136	L	Active power L3 (output)	1	UINT16	1			kW
	45138	0x1411	5137		Apparent power L1 (output)	1	UINT16	1			kVA
	45139	0x1412	5138	<u> </u>	Apparent power L2 (output)	1	UINT16	1			kVA
	45140	0x1413	5139	-	Apparent power L3 (output)	1	UINT16	1	┿.		kVA
A A	45141 45142	0x1414 0x1415	5140 5141	<u> </u>	Apparent power percent L1 (output) Apparent power percent L2 (output)	1	UINT16 UINT16	0,1			% %
A	45143	0x1415 0x1416	5142	1	Apparent power percent L2 (output) Apparent power percent L3 (output)	1	UINT16	0,1			% %
-,,	45144	0x1417	5143	1	Total active power (output)	1	UINT16	1	+-'		kW
				•	/kan	• • •		· · · · ·			

									Yanla Yanla	T
	Modicon Standard	Absolute Starting	Absolute Starting			Length	Data Type	Multiply	Scale Divide	
Release	Register Number	Register Address,	Register Address,			# registers	Data Type	Reading		
Release	rtogistor rtumbor	(Hexa-decimal)	(Decimal)	Bit	Data Point	" Togiotoro		By:	By:	Valid Response
	454.45	0::4440		- Dit		4	LUNETAG		1 4	kVA
	45145 45146	0x1418 0x1419	5144 5145		Total apparent power (output) Total Output Percent load	1	UINT16 UINT16	0,1	10	KVA o/
	45147	0x141A	5146		Power factor L1 (output)	1	UINT16	0,01	100	power factor
	45148	0x141B	5147		Power factor L2 (output)	1	UINT16	0,01	100	power factor
	45149	0x141C	5148		Power factor L3 (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)	1	UINT16	0,1	10	crest factor Volts
	45154	0x1420 0x1421	5152		Voltage L1-N (output) Voltage L2-N (output)	1	UINT16 UINT16	1	1	Volts
	45155	0x1422	5154		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	%
	45158	0x1425	5157		Current THD L2 (output)	1	UINT16	0,1	10	%
	45159	0x1426	5158		Current THD L3 (output)	1	UINT16	0,1	10	%
	45160 45161	0x1427 0x1428	5159 5160		IOC Power Rating Available UPS Power Rating	1	UINT16	1	1	kVA
	45161	UX1426	5160		Available UPS Power Rating	-	UINT16		'	kVA
	45376	0x14FF	5375		RESERVED	1	UINT16	1	1	
	45377	0x1500	5376		IOC Ambient temperature	1	UINT16	1	1	°C or °F
					•					Bit mask
										For each bit,
	45378	0x1501	5377	L	Switch gear status	1				0 = open, 1 =closed
					Unit Input Breaker (UIB) Unit Output Breaker (UOB)		BOOLEAN BOOLEAN	 		
					Maintenance Bypass Breaker (MBB)		BOOLEAN			
					System Isolation Breaker (SIB)		BOOLEAN			
					Static Switch Input Breaker (SSIB)		BOOLEAN			
					Battery Breaker 1 (for classic battery solution)		BOOLEAN			
					Battery Breaker 2 (for classic battery solution)		BOOLEAN			
					Battery Breaker 3 (for classic battery solution)		BOOLEAN			
					Battery Breaker 4 (for classic battery solution) BF2		BOOLEAN BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
				15	Reserved		BOOLEAN		1	IU = Heservea
										1 = Normal operation
										2 = Battery Operation
										3 = Battery Test
										4 = Requested Static Bypass
										5 = Forced Static Bypass
										6 = Maintenance Bypass 7 = Off
										7 = Off 8 = Emergency Static Bypass
										9 = Static Bypass Standby
										10 = Inverter Standby
				1						11 = Power Saving Mode
										12 = Inverter SPoT Mode
										13 = ECO Mode
				1						14 = ECOnversion
	45070	0.4500	5070		UPO Or service Made		EN 11 11 1			15 = Charger SPoT Mode
 	45379 45380	0x1502 0x1503	5378 5379	1	UPS Operation Mode Number of Active Alarms	1	ENUM UINT16	1	4	16 = Battery discharge SPoT Mode Number of active alarms in the system
	40300	0.0003	55/8		INUMBER OF ACTIVE AIGINS	- ' -	UIINI I I			0 = none
				1						1 = informational
										2 = warning
	45381	0x1504	5380		Highest alarm severity	1	UINT16	1	1	3 = critical

								S	cale	
	Modicon Standard	Absolute Starting	Absolute Starting			Length	Data Type	Multiply	Divide	
Release	Register Number	Register Address,	Register Address,			# registers	,,	Reading	Reading	
		(Hexa-decimal)	(Decimal)	Bit	Data Point			By:	By:	Valid Response
								1	1	1 = Inverter
										2 = Requested Static Bypass
										3 = Forced Static Bypass
										4 = Off
										5 = Reserved
										6 = Maintenance Bypass
										7 = ECO Mode
	45000	04505	5004		Outton Made		E			8 = ECOnversion
	45382 45383	0x1505 0x1506	5381 5382		System Mode RESERVED	3	ENUM		-	9 = Static Bypass Standby
	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			mm/dd/yyyy format
	45395	0x1512	5394		Input kWh	2	UINT32	1	1	kWh
	45397	0x1514	5396		Output kWh	2	UINT32	1	1	kWh
	.=						ļ			
	45399	0x1516	5398	—	IOC Exhaust Air Temperature	1 1	UINT16	1	1	°C or °F
 -	45400 45401	0x1517 0x1518	5399 5400	 	Ambient Temperature from Power Cabinet [1] Exhaust Temperature from Power Cabinet [1]	1	UINT16 UINT16	1	1	°C or °F °C or °F
	45401 45402	0x1518	5400	\vdash	Ambient Temperature from Power Cabinet [1]	1	UINT16 UINT16	1	1	°C or °F
	45403	0x1519	5402	\vdash	Exhaust Temperature from Power Cabinet [2]	1	UINT16	1	1	°C or °F
	45404	0x151B	5403		Ambient Temperature from Power Cabinet [2]	1	UINT16	1	1	°C or °F
	45405	0x151C	5404		Exhaust Temperature from Power Cabinet [3]	1	UINT16	1	1	°C or °F
	45406	0x151D	5405		Ambient Temperature from Power Cabinet [4]	1	UINT16	1	1	°C or °F
	45407	0x151E	5406		Exhaust Temperature from Power Cabinet [4]	1	UINT16	1	1	°C or °F
	45408	0x151F	5407		Ambient Temperature from Power Cabinet [5]	1	UINT16	1	1	°C or °F
	45409	0x1520	5408		Exhaust Temperature from Power Cabinet [5]	1 1	UINT16	1	1	°C or °F
	45410 45411	0x1521 0x1522	5409 5410		Ambient Temperature from Power Cabinet [6] Exhaust Temperature from Power Cabinet [6]	1	UINT16 UINT16	1	1	°C or °F °C or °F
	45411	0x1522 0x1523	5410		Ambient Temperature from Power Cabinet [7]	1	UINT16	1	1	°C or °F
	45413	0x1523	5412		Exhaust Temperature from Power Cabinet [7]	i	UINT16	1	1	°C or °F
	45414	0x1525	5413		Power Cabinet Redundancy Status	1	UINT16	1	1	0 - 7
					•					
	46401	0x1900	6400		Current L1 (parallel system mains input)	1	UINT16	1	1	amps
	46402	0x1901	6401		Current L2 (parallel system mains input)	1	UINT16	1	1	amps
	46403	0x1902	6402		Current L3 (parallel system mains input)	1 1	UINT16	1	1	amps
	46404 46405	0x1903 0x1904	6403 6404		Current L1 (parallel system bypass input) Current L2 (parallel system bypass input)	1 1	UINT16 UINT16	1	1	amps amps
	46406	0x1904 0x1905	6405		Current L3 (parallel system bypass input)	1	UINT16	1	1	amps
	46407	0x1906	6406		Current L1 (parallel system output)	i	UINT16	1	1	amps
	46408	0x1907	6407		Current L2 (parallel system output)	1	UINT16	1	1	amps
	46409	0x1908	6408		Current L3 (parallel system output)	1	UINT16	1	1	amps
	46410	0x1909	6409		Total apparent power (parallel system output)	1	UINT16	1	1	kVA
	46411	0x190A	6410		Total Percent load (parallel system)	1	UINT16	0,1	10	%
	46412	0x190B	6411	—	Total active power (parallel system output)	1	UINT16	1	10	kW
A A	46413 46414	0x190C 0x190D	6412 6413	<u> </u>	Apparent power percent L1 (parallel system output) Apparent power percent L2 (parallel system output)	1	UINT16 UINT16	0,1	10	% %
A	46415	0x190D 0x190E	6414		Apparent power percent L2 (parallel system output) Apparent power percent L3 (parallel system output)	1	UINT16	0,1	10	% %
-,	46416	0x190E	6415		Reserved		54110	٥,١	10	, · ·
	46417	0x1910	6416	1	Reserved				1	
	46418	0x1910 0x1911	6417	\vdash	Reserved	1	1	1	 	
	46419	0x1912	6418		Reserved			1	1	
	46420	0x1913	6419		UPS Operation Modes	1		1		bit = 1, define current UPS operation mode
					Initialize		BOOLEAN			·
					Normal Operation		BOOLEAN			
 					Battery Operation	1	BOOLEAN		 	
ļ					Battery test or Battery Discharge in Spot Mode	+	BOOLEAN		 	
					Requested Static Bypass Forced Static Bypass	+	BOOLEAN BOOLEAN		}	
					Maintenance Bypass	+	BOOLEAN		 	
					Off	1	BOOLEAN		†	
					Emergency Static Bypass	Ì	BOOLEAN			
				9	Static Bypass Standby		BOOLEAN			
					Inverter standby		BOOLEAN			
					Power Saving mode	1	BOOLEAN		1	
		l		12	Inverter SPoT Mode	1	BOOLEAN		l	

								S	Scale	
	Modicon Standard	Absolute Starting	Absolute Starting			Length	Data Type	Multiply	Divide	
Release	Register Number	Register Address,	Register Address,			# registers		Reading		
Neicase		(Hexa-decimal)	(Decimal)	Bit	Data Point			By:	By:	Valid Response
		(,	(/	_					<u> </u>	valid (tespolise
					ECO mode		BOOLEAN			
					ECOnvertion Mode mode		BOOLEAN			
					Charger SPoT Mode	.	BOOLEAN			
	46421	0x1914	6420		System Mode	1				bit = 1, define current System mode
					Inverter Description of the Property of the Pr		BOOLEAN			
					Requested Static Bypass Forced Static Bypass	+	BOOLEAN BOOLEAN		-	
					Off	-	BOOLEAN			
					Maintenance Bypass		BOOLEAN			
					ECO mode	+	BOOLEAN			
					ECOnversion mode		BOOLEAN			
					Static Bypass Standby Operation		BOOLEAN			
					Reserved		BOOLEAN			
				9	Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
				12	Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
				15	Reserved		BOOLEAN			
	46422	0x1915	6421		Reserved	1	UINT16	1	1	
	46423	0x1916	6422	<u> </u>	Reserved	1	UINT16	1	1	
	46424	0x1917	6423		Reserved	1	UINT16	1	1	
	46425	0x1918	6424	<u> </u>	Reserved	1	UINT16	1	1	
	46426	0x1919	6425	<u> </u>	Reserved	1	UINT16	1	1	
	46427	0x191A	6426	_	Reserved	1	UINT16	1	1	
	46428 46429	0x191B 0x191C	6427 6428		Reserved	1	UINT16	1	1	
	46430	0x191C 0x191D	6429		Reserved Reserved	1 1	UINT16 UINT16	1	1	
	46431	0x191E	6430	 	Sensor temperature in sensor 1	1	UINT16	0,1	10	°C or °F
	40431	OXIBIL	0430	-	Sensor temperature in sensor i	 '	OINTTO	0,1	10	
	46432	0x191F	6431		Sensor temperature in sensor 2	1	UINT16	0,1	10	°C or °F
	46433	0x191F	6432		Sensor humidity in sensor 1	1	UINT16	0,1	10	%
	46434	0x1920 0x1921	6433	-	Sensor humidity in sensor 2	1	UINT16	0,1	10	%
	70707	0.1321	0400		Densor Humany in sensor 2	† ·	Olivi 10	0,1	10	Bit mask
										For each bit,
	46435	0x1922	6434		sensor (AP9810) input contact status	1				0 = open, 1 =closed
		•		0	Sensor dry contact A in sensor 1		BOOLEAN			
					Sensor dry contact B in sensor 1		BOOLEAN			
					Sensor dry contact A in sensor 2		BOOLEAN			
					Sensor dry contact B in sensor 2		BOOLEAN			
1				4	Reserved		BOOLEAN	<u></u>		
				5	Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved	ļ	BOOLEAN			
ļ					Reserved	1	BOOLEAN	ļ	1	
ļ					Reserved	1	BOOLEAN	ļ	1	
					Reserved		BOOLEAN	ļ	1	
					Reserved	 	BOOLEAN	<u> </u>	-	
				15	Reserved	 	BOOLEAN	<u> </u>	-	Unanavahla (Dad) 4
						1				Inoperable (Red) = 4
	46440	0v1000	6440		Hear interface Input Dietogram	.	LUNTAG	4	.	Ok and operating (Green) = 2
	46449	0x1930	6448	<u> </u>	User interface - Input Pictogram	1	UINT16	1		None of the above (Black) = 0 Inoperable (Red) = 4
						1				Ok and operating (Green) = 2
	46450	0x1931	6449		User interface - PFC Pictogram	1	LIINTAG	4	1	None of the above (Black) = 0
	46450	UX 1931	0449	<u> </u>	OSEI IIILEHACE - PPO PICLOGIAM	1	UINT16	 		Inoperable (Red) = 4
						1				Ok and operating (Green) = 2
	46451	0x1932	6450		User interface - Battery Pictogram	1	LIINTAG	1	1	None of the above (Black) = 0
	40401	UX 1932	0400	-	OSET INTERIACE - DATERY FICTOGRAFII	+ '-	UINT16		+-	Inoperable (Red) = 4
						1				Ok and operating (Green) = 2
	46452	0×1022	6451	1	Usor interface Inverter Pietogram	1 4	LUNTIG	1	1 4	
	46452	0x1933	6451		User interface - Inverter Pictogram	1	UINT16	1	1	None of the above (Black) = 0

\longrightarrow			1						cale	
	Modicon Standard	Absolute Starting	Absolute Starting			Length	Data Type	Multiply	Divide	
Release	Register Number	Register Address,	Register Address,			# registers		Reading By:	Reading By:	
		(Hexa-decimal)	(Decimal)	Bit	Data Point			Dy.	Dy.	Valid Response
-						Т				Inoperable (Red) = 4
										Ok and operating (Green) = 2
	46453	0x1934	6452		User interface - Output Pictogram	1	UINT16	1	1	None of the above (Black) = 0
										Inoperable (Red) = 4
	46454	0x1935	6453		User interface - Bypass Input Pictogram	1	LUNITAG	1	1	Ok and operating (Green) = 2 None of the above (Black) = 0
\longrightarrow	40404	0.000	0400		Oser Interface - Bypass Input Fictogram		UINT16	'		Inoperable (Red) = 4
										Ok and operating (Green) = 2
	46455	0x1936	6454		User interface - Static Bypass Pictogram	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		BOOLEAN			0 = open, 1 =closed
\longrightarrow					Reserved Reserved		BOOLEAN BOOLEAN			
\longrightarrow					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
\longrightarrow					Reserved Reserved		BOOLEAN BOOLEAN		-	
\longrightarrow					Reserved		BOOLEAN		-	
					Reserved		BOOLEAN			
				12	Reserved		BOOLEAN			
	<u> </u>				Reserved		BOOLEAN			
\longrightarrow					Reserved Reserved		BOOLEAN BOOLEAN	-	1	
\longrightarrow	46457	0x1938	6456		Power Cabinet status for UPS detailled view animation	1	UINT16	1	1	
	40437	0.1000	0430		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		BOOLEAN			1 = warning alarm present in Power Cabinet 2 (Orange)
					Critical alarm present in Power Cabinet 2		BOOLEAN			1 = critical alarm present Power Cabinet 2 (Red)
\longrightarrow					Warning alarm present in Power Cabinet 3 Critical alarm present in Power Cabinet 3		BOOLEAN BOOLEAN			1 = warning alarm present in Power Cabinet 3 (Orange) 1 = critical alarm present Power Cabinet 3 (Red)
\longrightarrow					Warning alarm present in Power Cabinet 4		BOOLEAN			1 = warning alarm present in Power Cabinet 4 (Orange)
					Critical alarm present in Power Cabinet 4		BOOLEAN			1 = critical alarm present Power Cabinet 4 (Red)
					Warning alarm present in Power Cabinet 5		BOOLEAN			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)
					Warning alarm present in Power Cabinet 6		BOOLEAN			1 = warning alarm present in Power Cabinet 6 (Orange)
\longrightarrow					Critical alarm present in Power Cabinet 6 Warning alarm present in Power Cabinet 7		BOOLEAN BOOLEAN			1 = critical alarm present Power Cabinet 6 (Red) 1 = warning alarm present in Power Cabinet 7 (Orange)
\longrightarrow					Critical alarm present in Power Cabinet 7		BOOLEAN			1 = critical alarm present Power Cabinet 7 (Red)
					Reserved		BOOLEAN			The orthodratal process to the organic (100)
	•			15	Reserved		BOOLEAN			
	46458	0x1939	6457	آبا	Power Cabinet status for UPS detailled view animation	1	UINT16	1	1	
\longrightarrow					informational alarm present in Power Cabinet 1		BOOLEAN BOOLEAN	-	-	1 = informational alarm present in Power Cabinet 1
\longrightarrow					informational alarm present in Power Cabinet 2 informational alarm present in Power Cabinet 3		BOOLEAN		1	2 = informational alarm present in Power Cabinet 2 3 = informational alarm present in Power Cabinet 3
+					informational alarm present in Power Cabinet 3		BOOLEAN			4 = informational alarm present in Power Cabinet 4
					informational alarm present in Power Cabinet 5		BOOLEAN			5 = informational alarm present in Power Cabinet 5
					informational alarm present in Power Cabinet 6		BOOLEAN			6 = informational alarm present in Power Cabinet 6
					informational alarm present in Power Cabinet 7		BOOLEAN			7 = informational alarm present in Power Cabinet 7
\longrightarrow					Reserved Reserved		BOOLEAN BOOLEAN		-	
\longrightarrow					Reserved		BOOLEAN		-	
					Reserved		BOOLEAN			
	•				Reserved		BOOLEAN			
					Reserved		BOOLEAN			
\longrightarrow					Reserved		BOOLEAN		-	
\longrightarrow					Reserved Reserved		BOOLEAN BOOLEAN		1	
\longrightarrow				.5			DOULLAN	1	<u> </u>	
				_				•		
	Configuration									
	Data									
	48193	0x2000	8192		RESERVED	3	-		-	
			•			1	1	1	i	1

				_		1	I 5		cale	
	Modicon Standard	Absolute Starting	Absolute Starting			Length	Data Type		Divide	
Release	Register Number	Register Address,	Register Address,			# registers		Reading	Reading	
		(Hexa-decimal)	(Decimal)	Bit	Data Point			By:	By:	Valid Response
	48198	0x2005	8197	T	RESERVED					
	48199	0x2006	8198	+	RESERVED			1		
	48200	0x2007	8199	1	Breaker settings	1				bit = 1, breaker is present
	.0200	OXEG01	0.00	0	breaker Q1 (UIB)	·	BOOLEAN			and it products to product
					breaker Q2 (UOB)		BOOLEAN			
					Q3 (MBB)		BOOLEAN			
					Q4 (SIB)		BOOLEAN			
					Q5 (SSIB)		BOOLEAN			
					BB1		BOOLEAN			
					BB2		BOOLEAN			
				7	BB3		BOOLEAN			
					BB4		BOOLEAN			
					BF2		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
		ļ			Reserved		BOOLEAN			
		ļ			Reserved		BOOLEAN			
		ļ			Reserved		BOOLEAN			
				15	Reserved		BOOLEAN	ļ		
	10001		0000		L			1		0 = Celcius
	48201	0x2008	8200	1	Temperature unity	1	ENUM	ļ		1 = Fahrenheit
	48202	0x2009	8201	+	UPS environment settings	1	DOO! 5	 		Lit. A American in the control of th
					Input transformer presence		BOOLEAN			bit = 1, transformer is present
				1	Output transformer presence		BOOLEAN			bit = 1, transformer is present
				١,	A O		BOO! EAN!			bit = 0, input cabling 3 wires
\longrightarrow					AC wiring configuration		BOOLEAN			bit = 1, input cabling 4 wires bit = 1, mains supply input is single
\longrightarrow					UPS mains supply by single input		BOOLEAN BOOLEAN			
\longrightarrow					UPS mains supply by dual input Reserved		BOOLEAN			bit = 1, mains supply input is dual
\longrightarrow					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
		1			Reserved		BOOLEAN			
		1			Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
					Reserved		BOOLEAN			
	48203	0x200A	8202		SIB breaker label	2	ASCII			4 byte string = 2 registers, Default value "SIB "
	48205	0x200C	8204		UIB breaker label	2	ASCII			4 byte string = 2 registers, Default value UIB "
	48207	0x200E	8206		SSIB breaker label	2	ASCII			4 byte string = 2 registers, Default value "SSIB"
1	48209	0x2010	8208	I	MBB breaker label	2	ASCII	<u></u>		4 byte string = 2 registers, Default value "MBB "
	48211	0x2012	8210		UOB breaker label	2	ASCII			4 byte string = 2 registers, Default value "UOB "
	48213	0x2014	8212		BF2 breaker label	2	ASCII			4 byte string = 2 registers, Default value "BF2 "
	48215	0x2016	8214		BB breaker label	2	ASCII			4 byte string = 2 registers, Default value "BB "
	48449	0x2100	8448		Low Battery Alarm Threshold	1	UINT16	1	1	Seconds
		1				1		1		0=VRLA
		I						1		1=Open Cell
		1	_					1		2=Lithium-lon
	48450	0x2101	8449	1	Battery Type		ENUM	1	1	3=NiCd
		ĺ				1		1		0=None
		1						1		1=Classic
			0.7		D 11 O 1 11			4		2=NA
	40 :=:	0x2102	8450	1	Battery Solution		ENUM	1	1	3=Unknown
	48451	UNLTUL				1		1 .	l .	0=No 1=Yes
			0.17				ENUM	1	1 1	13-700
	48452	0x2103	8451		Deep Discharge Allowed				-	
	48452 48453	0x2103 0x2104	8452		Total Battery Capacity	1	UINT16	1		Ah
	48452 48453 48454	0x2103 0x2104 0x2105	8452 8453		Total Battery Capacity Reserved	1	UINT16 UINT16	1	1	Ah
	48452 48453	0x2103 0x2104	8452		Total Battery Capacity	1	UINT16		1	Ah
	48452 48453 48454	0x2103 0x2104 0x2105	8452 8453		Total Battery Capacity Reserved	1	UINT16 UINT16	1	1	Ah Unitless 0=380V
	48452 48453 48454	0x2103 0x2104 0x2105	8452 8453		Total Battery Capacity Reserved	1	UINT16 UINT16	1	1	Ah Unitless 0=380V 1=400V
	48452 48453 48454	0x2103 0x2104 0x2105	8452 8453		Total Battery Capacity Reserved	1	UINT16 UINT16	1	1	Ah Unitless 0=380V

								Scale		
	Modicon Standard	Absolute Starting	Absolute Starting			Length	Data Type	Multiply	Divide	
Release	Register Number	Register Address,	Register Address,			# registers		Reading		
rtolouse	3	(Hexa-decimal)	(Decimal)	Bit	Data Point			By:	By:	Valid Response
		(,	(,	Dit	Data i ont					
						1				0=Disable
	48706	0x2201	8705		Transfer to Static Bypass Disable		ENUM	1	1	1=Enable
	48707	0x2202	8706	1	Reserved	1	ENUM	1	1	
						1				0=No
	48708	0x2203	8707	4	Automatic Battery Disconnect		ENUM	1	1	1=Yes
						1				0=Disable
										1=ECO mode
									l .	2=ECOnversion
	48709	0x2204	8708	4_	High Efficiency Mode		ENUM	1	1	3=ECOnversion Harmonics Compensator
	48710	0x2205	8709	1	Reserved	1	LUNITIO	1	1 1	
	48711	0x2206	8710	1	Number of UPS installed in a parallel installation	1	UINT16	<u> </u>		
	48712 48713	0x2207 0x2208	8711 8712	1	Number of redundant UPS installed in a parallel installation Number of redundant Power Cabinet installed in a UPS	1	UINT16	<u> </u>		
	48/13	0x2208	8/12	-	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	I		bit = 1, UPS 1 is present
										bit = 0, UPS 2 not present
				1	UPS 2 presence		BOOLEAN	I		bit = 1, UPS 2 is present
										bit = 0, UPS 3 not present
				2	UPS 3 presence		BOOLEAN	I		bit = 1, UPS 3 is present
										bit = 0, UPS 4 not present
				3	UPS 4 presence		BOOLEAN	I		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			
			ļ		Reserved		BOOLEAN			
					Reserved		BOOLEAN		-	
		-			Reserved		BOOLEAN			
		-			Reserved		BOOLEAN			
-		 			Reserved		BOOLEAN		-	
		1			Reserved		BOOLEAN		_	
-		 		15	Reserved		BOOLEAN	4	-	O Dissella
l	48715	0x220A	8714	1	Frequency Converter Mode	1	ENUM	1	1	0=Disable
-	40/15	UX22UA	6/14	-	rrequency Converter Mode	<u> </u>	ENUM			1=Enable
		1		1				1		0=None
	48716	0x220B	8715	1	Energy Storage Type	1	ENUM	1	1	1=Battery
-	48716	0x220B	8715 8716	-	Energy Storage Type Number Power Cabinet on the left of IO Cabinet	+ +		1	1	2=Flywheel
Α	48717 48718	0x220C 0x220D	8716 8717	+-	Continuous Overload Mode Setting	1	UINT16 UINT16	1	+ +	0/
A	40/10	UXZZUD	0/1/	1	Continuous Overload Mode Setting		UINT 16			%

For information on how to obtain local customer support, contact the APC representative or other distributors from whom you purchased your APC product.

APC Worldwide Customer Support

Customer support for this or any other APC product is available at no charge in any of the following ways:

* Visit the APC Web site to access documents in the APC Knowledge Base and to submit customer support requests.

- www.apc.com (Corporate Headquarters) Connect to localized APC Web sites for specific countries, each of which provides customer support information.

- www.apc.com/support/ - Global support searching APC Knowledge Base and using e-support.

* Contact the APC Customer Support Center by telephone or e-mail.

- Local country-specific centers; on to way apc.com/support/contact for contact information.

⁻ Local, country-specific centers: go to www.apc.com/support/contact for contact information.