

Modbus Register Map: Easy UPS 3-Phase Modular 50-250 kW UPS

- 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 supported4. 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.

							Sc	ale			
Modicon Standard Register Number	Absolute Starting Register Address, (Hexa-decimal)		Bit	Data Point	Length #	Data Type	Multiply Reading By:	Divide Reading By:	NMC Modbus TCP	User Modbus RTU	Valid Response
					regione	zata ijpo	-,-	_,-			
Status Data											
40002	0x0001	1		UPS status	1				×	×	
40002	0,0001			UPS operation mode - Battery	<u>'</u>	BOOLEAN				X	1=Load is being powered from battery
				Battery is below minimum acceptable runtime		BOOLEAN					1=Battery is below minimum acceptable runtime
			-	Bypass		BOOLEAN					1=System is in Bypass
				UPS operation mode - Battery test		BOOLEAN					1=Self-test in progress
				Reserved		BOOLEAN					1-den-test in progress
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
			8	Reserved		BOOLEAN					
			9	Battery inoperable		BOOLEAN					1=Battery inoperable
			10	Reserved		BOOLEAN					
			11	Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Information alarm present		BOOLEAN					1=Information alarm present
				Warning alarm present		BOOLEAN					1=Warning alarm present
			15	Critical alarm present		BOOLEAN					1=Critical alarm present
Alarm		_									
40003	0x0002	2		Bypass	1				Х	Х	
											1=Bypass voltage is out of tolerance and UPS is prevented from going into requested bypass mode
				Bypass voltage out of tolerance		BOOLEAN					
			1	Bypass phase sequence incorrect		BOOLEAN					1=The phase rotation on bypass is incorrect
			2	Bypass frequency out of tolerance		BOOLEAN					1=Bypass frequency is out of tolerance
				Bypass phase missing		BOOLEAN					1=Bypass is missing a phase
			_	Reserved		BOOLEAN					Reserved
				Reserved		BOOLEAN					Reserved
				Reserved		BOOLEAN	1				Reserved
				Reserved		BOOLEAN	1				Reserved
				Reserved		BOOLEAN	1			-	Reserved
				Reserved		BOOLEAN					Reserved
				Reserved		BOOLEAN					Reserved
	+	+		Reserved		BOOLEAN	+			<u> </u>	Reserved
				Reserved Reserved		BOOLEAN BOOLEAN	+				Reserved
				Reserved		BOOLEAN	+			1	Reserved
	+	+		Reserved		BOOLEAN	+			1	Reserved Reserved
			10	TOOUI VOU		DOOLEAN				1	lizasei zen

		1					Sc	ale		1	
Modicon Standard	Absolute Starting						00	aic			
Register Number	Register Address,	Absolute Starting									
rtogiotor rtambor	(Hexa-decimal)	Register Address,					Multiply	Divide	NMC		
	(Hoxa acontial)	(Decimal)			Length #		Reading	Reading	Modbus	User Modbus	
		(Boomai)	Bit	Data Point	registers	Data Type	By:	By:	TCP	RTU	Valid Response
						ург	,	,			
40004	0x0003	3		Energy storage	1				Х	X	
			0	Battery breaker BB1 open		BOOLEAN					1=Battery breaker BB1 open
				Battery breaker BB2 open		BOOLEAN					1=Battery breaker BB2 open
				Battery breaker BB3 open		BOOLEAN					1=Battery breaker BB3 open
				Battery breaker BB4 open		BOOLEAN					1=Battery breaker BB4 open
				Batteries are discharging		BOOLEAN					1=Batteries are discharging
				Charger shutdown due to high battery temperature		BOOLEAN					1=Charger shutdown due to high battery temperature
				Battery is below minimum acceptable runtime		BOOLEAN					1=Battery is below minimum acceptable runtime
				Battery voltage does not match battery configuration		BOOLEAN					1=Battery voltage does not match battery configuration
			_	Battery condition is weak	+	BOOLEAN BOOLEAN				 	1=Battery condition is weak
				Battery condition is poor High battery temperature level	+	BOOLEAN					1=Battery condition is poor
				Low battery temperature level	+	BOOLEAN					1=High battery temperature level 1=Low battery temperature level
				Battery capacity is below minimum acceptable level	+	BOOLEAN				 	1=Battery capacity is below minimum acceptable level
				Battery charge power is reduced	+	BOOLEAN				1	1=Battery capacity is below minimum acceptable level
				Battery is not working correctly	+	BOOLEAN				 	1=Battery is not working correctly
				Battery float charge current exceeds expected value		BOOLEAN					1=Battery float charge current exceeds expected value
40005	0x0004	4		Energy storage	1	BOOLEAN			X	X	TEDAMONY HOLD CHANGE CANCEL CAPOLICA VALUE
10000	one or i			High battery temperature shutdown		BOOLEAN			,	7.	1=High battery temperature shutdown
				Battery configuration is incorrect		BOOLEAN					1=Battery configuration is incorrect
				Charger shutdown due to low battery temperature		BOOLEAN					1=Charger shutdown due to low battery temperature
				Reserved		BOOLEAN					
			4	Reserved		BOOLEAN					
			5	Reserved		BOOLEAN					
			6	Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN BOOLEAN					
				Reserved Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLLAIN					
40006	0x0005	5		General	1				X	X	
10000	- CACCCC			EPO switch activated		BOOLEAN			,	7.	1=EPO switch activated
				Synchronization unavailable - System is free running		BOOLEAN					1=Synchronization unavailable - system is free running
			$\overline{}$	Inverter output is not in phase with bypass input	1	BOOLEAN					1=Inverter output is not in phase with bypass input
				UPS operation mode - Battery	1	BOOLEAN					1=UPS operation mode - Battery
				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
				UPS operation mode - Battery test		BOOLEAN					1=UPS operation mode - Battery test
				UPS operation mode - Off		BOOLEAN					1=UPS operation mode - Off
				UPS operation mode - Initialization		BOOLEAN					1=UPS operation mode - Initialization
				UPS operation mode - Static bypass standby		BOOLEAN					1=UPS operation mode - Static bypass standby
			11	UPS operation mode - Inverter standby		BOOLEAN				ļ	1=UPS operation mode - Inverter standby
			12	Reserved		BOOLEAN					1=System operation mode - Off
				Reserved	+	BOOLEAN					1=System operation mode - On 1=System operation mode - Forced static bypass
		1		Reserved	+	BOOLEAN				 	1=System operation mode - Porced static bypass 1=System operation mode - Requested static bypass
				Reserved	+	BOOLEAN				1	1=System operation mode - Nequested static bypass 1=System operation mode - Maintenance bypass
	_1	1		1.000.700	1	DOULLAN				1	

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Modicon Standard Register Number	Absolute Starting Register Address, (Hexa-decimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length #	Data Type	Multiply Reading By:	Divide Reading By:	NMC Modbus TCP	User Modbus RTU	Valid Response
			DIL	Data Follit	registers	Data Type	Бу.	Бy.	ICP	I KIU	Valid Response
40007	0x0006	6		General	1				X	l x	
	SHO G G G	· ·		System operation mode - Off		BOOLEAN					1=System operation mode - Static bypass standby
				System operation mode - Forced static bypass		BOOLEAN					1=Product not registered
				System operation mode - Requested static bypass		BOOLEAN					
				System operation mode - Maintenance bypass		BOOLEAN					
			4	System operation mode - Static bypass standby		BOOLEAN					
				System operation mode - ECO mode		BOOLEAN					
				Product not registered		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved System locked in hypass aparation		BOOLEAN BOOLEAN					1_System locked in hypose eneration
				System locked in bypass operation Reserved		BOOLEAN					1=System locked in bypass operation
				Unsupported power module type detected		BOOLEAN				1	1=Unsupported power module type detected
				The state of the s		JOULIAN					. The parties parties in a second type sec
			12	Unsupported static bypass switch module type detected		BOOLEAN					1=Unsupported static bypass switch module type detected
			-	Reserved		BOOLEAN					· · · · · · · · · · · · · · · · · · ·
				Configured UPS power rating exceeds frame power							1=Configured UPS power rating exceeds frame power rating
				rating		BOOLEAN					
				Reserved		BOOLEAN					
40008	0x0007	7		General	1				X	Х	
				Reserved No SBS present		BOOLEAN					4. No CDC present
				No power module(s) present		BOOLEAN BOOLEAN					1=No SBS present 1=No power module(s) present
				Reserved		BOOLEAN					T=No power module(s) present
				Reserved		BOOLEAN					
				Ambient temperature out of tolerance		BOOLEAN					1=Ambient temperature out of tolerance
				Ambient temperature high		BOOLEAN					1=Ambient temperature high
			7	Inverter is off due to a request by the user		BOOLEAN					1=Inverter is off due to a request by the user
				Reserved		BOOLEAN					
				Warranty expiring soon		BOOLEAN					1=Warranty expiring soon
				Technical check recommended		BOOLEAN					1=Technical check recommended 1=Air filter technical check recommended
				Air filter technical check recommended Reserved		BOOLEAN BOOLEAN					1=Air filter technical check recommended
				UPS surveillance detected fault		BOOLEAN					1=UPS surveillance detected fault
			-	Display communication lost - display is disconnected		BOOLLAN					1-01 C Salvelliance detected radit
				from the system		BOOLEAN					1=Display communication lost - display is disconnected from the system
				Reserved		BOOLEAN					1-Biophay communication root diophay is discommented from the dystem
40009	0x0008	8		General	1				Х	Х	
			0	Display communication not authenticated		BOOLEAN					1=Display communication not authenticated
				Reserved		BOOLEAN					
			-	Reserved		BOOLEAN					
				Reserved		BOOLEAN					A linearment LIDO as a dal assessina a data at a d
				Incorrect UPS model number detected Reserved		BOOLEAN					1=Incorrect UPS model number detected
				Reserved		BOOLEAN BOOLEAN					
				Internal power module redundancy lost		BOOLEAN					1=Internal power module redundancy lost
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
			10	Power Module ID configuration not OK		BOOLEAN					1=Power Module ID configuration not OK
				DC-DC current limitation threshold lowered due to high							
				temperature		BOOLEAN					1=DC-DC current limitation threshold lowered due to high temperature
			_	Reserved		BOOLEAN					
				PFC AC current limitation threshold lowered due to high							1=PFC AC current limitation threshold lowered due to high temperature
			13	temperature		BOOLEAN					1 - 1 - Ao current innitation tirreshold lowered due to high temperature
				Reserved		BOOLEAN					
			15	Reserved		BOOLEAN					

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Modicon Standard	Absolute Starting				+		30	ale			
Register Number	Register Address,	Absolute Starting									
Register Number	(Hexa-decimal)	Register Address,					Multiply	Divide	NMC		
	(Hexa-decilliai)	(Decimal)			Length #		Reading	Reading	NMC Modbus	User Modbus	
		(Decimal)	Bit	Data Point	registers	Data Type	By:	By:	TCP	RTU	Valid Response
			D IL	Sala i Silik	regiotere	Data Type	2,	27.			Taile Hoopenee
40010	0x0009	9		Reserved	1				Х	X	
40011	0x000A	10		Reserved	1				Х	Х	
40012	0x000B	11		Input	1				X	X	
				Input voltage out of tolerance		BOOLEAN					1=Input voltage out of tolerance
				Input phase sequence incorrect		BOOLEAN					1=Input phase sequence incorrect
				Input frequency out of tolerance		BOOLEAN					1=Input frequency out of tolerance
				Input phase missing		BOOLEAN					1=Input phase missing
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN BOOLEAN					
				Reserved Reserved		BOOLEAN					
				Neutral displacement detected		BOOLEAN					1=Neutral displacement detected
				Reserved		BOOLEAN					1-Hourial displacement detected
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
40013	0x000C	12		Output	1				Х	X	
			0	Output voltage out of tolerance		BOOLEAN					1=Output voltage out of tolerance
				Output frequency out of tolerance		BOOLEAN					1=Output frequency out of tolerance
				Overload or short-circuit on UPS		BOOLEAN					1=Overload or short-circuit on UPS
				Overload on UPS due to high ambient temperature		BOOLEAN					1=Overload on UPS due to high ambient temperature
				Reserved		BOOLEAN					
				Load on UPS is above warning level		BOOLEAN					1=Load on UPS is above warning level
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved Reserved		BOOLEAN BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
40014	0x000D	13		Parallel system	1				Х	X	
40015	0x000E	14		Power module	1				Х	Х	
				Power module inoperable		BOOLEAN					1=Power module inoperable
				Power module temperature warning		BOOLEAN					1=Power module temperature warning
			_	Power module overheated		BOOLEAN					1=Power module overheated
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved Reserved		BOOLEAN					1—Dower module for incharable
				Power module fan inoperable Power module disabled		BOOLEAN BOOLEAN					1=Power module fan inoperable 1=Power module disabled
				Power module disabled Power module surveillance detected fault		BOOLEAN					1=Power module disabled 1=Power module surveillance detected fault
				PMC communication lost - disconnected		BOOLEAN					1=PMC communication lost - disconnected
				PMC communication lost - connected		BOOLEAN					1=PMC communication lost - disconnected
				PMC communication not authenticated		BOOLEAN					1=PMC communication not authenticated
				Reserved		BOOLEAN					USINIMANIANIANI NOU MANIANIANIANI
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
i i											

	1	T			1		T 9/	cale		Γ	
Modicon Standard	Absolute Starting						30	Jaie			
Register Number	Register Address,	Absolute Starting									
Negister Number	(Hexa-decimal)	Register Address,					Multiply	Divide	NMC		
	(nexa-decimal)	(Decimal)			Length #		Reading	Reading	Modbus	User Modbus	
		(Decimal)	Bit	Data Point	registers	Data Type	By:	By:	TCP	RTU	Valid Response
			Di.	Data i Sint	rogiotoro	Data Type			101	14.10	Valid Nooponide
40017	0x0010	16		Static bypass switch	1		T .		Х	X	
				Static bypass switch fan inoperable		BOOLEAN					1=Static bypass switch fan inoperable
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Static bypass switch inoperable		BOOLEAN					1=Static bypass switch inoperable
				Static bypass switch controller communication lost - disco		BOOLEAN					1=Static bypass switch controller communication lost - disconnected
				Static bypass switch controller communication lost - conn		BOOLEAN					1=Static bypass switch controller communication lost - connected
				Static bypass switch controller communication not auther		BOOLEAN					1=Static bypass switch controller communication not authenticated
				Static bypass switch module disabled Reserved		BOOLEAN BOOLEAN					1=Static bypass switch module disabled
				Reserved		BOOLEAN					
	+			Reserved		BOOLEAN	+			 	
		<u> </u>		Reserved		BOOLEAN				<u> </u>	
				Reserved		BOOLEAN	1				
			13	Reserved		BOOLEAN	<u>L</u>				
			14	Reserved		BOOLEAN					
				Reserved		BOOLEAN					
40018	0x0011	17		Switchgear	1	D00:=			X	X	
		-		Breaker UIB open		BOOLEAN	1			-	1=Breaker UIB open
				Breaker UOB open Breaker MBB closed		BOOLEAN					1=Breaker UOB open
				Breaker SIB open		BOOLEAN BOOLEAN					1=Breaker MBB closed 1=Breaker SIB open
				Breaker SSIB open		BOOLEAN					1=Breaker SSIB open
				Breaker IMB closed		BOOLEAN					1=Breaker IMB closed
				Breaker RIMB closed		BOOLEAN					1=Breaker RIMB closed
				Ext. MBB closed		BOOLEAN					
			8	Reserved		BOOLEAN					
				Ground fault detected		BOOLEAN					1=Ground fault detected
				Genset is supplying the UPS		BOOLEAN					1=Genset is supplying the UPS
			11	Battery room ventilation inoperable		BOOLEAN					1=Battery room ventilation inoperable
			12	External battery monitoring detected fault UOB redundant monitoring not working correctly		BOOLEAN BOOLEAN					1=External battery monitoring detected fault
				MBB redundant monitoring not working correctly		BOOLEAN					1=UOB redundant monitoring not working correctly 1=MBB redundant monitoring not working correctly
				Reserved		BOOLEAN					T=NBB redundant monitoring not working correctly
40019	0x0012	18	1.0	Switchgear	1	BOOLEAN			Х	Х	
	5110 5 1		0	Reserved		BOOLEAN					
			1	UPS locked in static bypass mode: activated		BOOLEAN					1=UPS locked in static bypass mode: activated
				High efficiency mode disabled		BOOLEAN					1=High efficiency mode disabled
				External energy storage monitoring: minor alarm		BOOLEAN					1=External energy storage monitoring: minor alarm
				External energy storage monitoring: major alarm	1	BOOLEAN					1=External energy storage monitoring: major alarm
		1		External charger off command: activated		BOOLEAN	1			1	1=External charger off command: activated
	+	-		Reserved Reserved		BOOLEAN BOOLEAN	-			-	
				Reserved		BOOLEAN	+				
	+			Reserved		BOOLEAN					
		<u> </u>		Reserved		BOOLEAN	1			<u> </u>	
				Reserved	1	BOOLEAN	1				
			12	Reserved		BOOLEAN	<u>L</u>				
			13	Reserved		BOOLEAN					
				Reserved		BOOLEAN					
10000	0.0040		15	Reserved							
40020	0x0013	19		SMC	1	DOO! EAS!			Х	Х	
			_	Reserved		BOOLEAN				1	
	+	 		Reserved		BOOLEAN BOOLEAN	1			 	
	+	+		Reserved Reserved		BOOLEAN	1			 	
				Reserved		BOOLEAN	+				
	 			Reserved	1	BOOLEAN	1			<u> </u>	
				Reserved		BOOLEAN	1				
			_	Reserved		BOOLEAN					
	•			•			4				•

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Modicon Standard Register Number	Absolute Starting Register Address, (Hexa-decimal)	Absolute Starting Register Address, (Decimal)			ngth #	Data Type	Multiply Reading By:	Divide Reading By:	NMC Modbus TCP	User Modbus RTU	Valid Response
			DIL	Data Politi Tegi	ISICIS	рака туре	Dy.	Бу.	TCP	L KIU	Valid Response
40021	0x0014	20		IMC	1				Х	Х	
			0	IMC enabled switch disabled		BOOLEAN					1=IMC enabled switch disabled
			_	Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved Reserved		BOOLEAN BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
			8	Reserved		BOOLEAN					
				IMC communication lost - disconnected		BOOLEAN					1=IMC communication lost - disconnected
				IMC communication lost - connected		BOOLEAN					1=IMC communication lost - connected
				IMC communication not authenticated		BOOLEAN	 				1=IMC communication not authenticated
				Reserved		BOOLEAN BOOLEAN					
				Reserved Reserved		BOOLEAN	+ -				
				Reserved		DOOLLAIN	+				
40022	0x0015	21		Reserved	1				Х	X	
40023	0x0016	22		Reserved	1				Х	Х	
40024	0x0017	23		Network	1				Χ	Х	
			_	Reserved		BOOLEAN					
				Reserved		BOOLEAN					
			_	Reserved Reserved		BOOLEAN BOOLEAN					
				Reserved		BOOLEAN					
			_	Reserved		BOOLEAN					
			_	Reserved		BOOLEAN					
			7	Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Communication link between NMC and SMC is lost. NMC							
			9	is disconnected from the system Communication link between NMC and SMC is lost. NMC		BOOLEAN					1=Communication link between NMC and SMC is lost. NMC is disconnected from the system
			10	is connected to the system		BOOLEAN					1=Communication link between NMC and SMC is lost. NMC is connected to the system
				Communication between NMC and SMC is not authenticated		BOOLEAN					1=Communication hink between NMC and SMC is not authenticated
				NMC firmware incompatible		BOOLEAN					1=NMC firmware incompatible
				Reserved		BOOLEAN					
			14	Reserved		BOOLEAN					
			15	Reserved							
Static Data	0,500	4000		LIDS Model Name	10	ACCII			V	V	
41281 41291	0x500 0x50A	1280 1290				ASCII ASCII			X	X	
41291	0x50A 0x512	1298	_		<u>8</u> 12	ASCII			X		
41299	0x51Z 0x51E	1310			8	ASCII	+ -		X	X	
41319	0x526	1318	_		8	ASCII			X	X	
41327	0x52E	1326				ASCII			X	X	
41343	0x53E	1342				ASCII	<u></u>		X	X	
41359	0x54E	1358			8	ASCII			X	X	
41367	0x556	1366			8	ASCII			X	X	
41375	0x55E	1374			16	ASCII			X	X	
41391 41407	0x56E 0x57E	1390 1406				ASCII ASCII			X	X	
41415	0x586	1414				ASCII			X	X	Option
41423	0x58E	1422	_		8	ASCII	+		X	X	Option
41431	0x596	1430			<u></u> 12	ASCII			X	X	Option
41443	0x5A2	1442				ASCII	1		Υ	Y	Option

	Scale								I	T	
Modicon Standard Register Number	Absolute Starting Register Address, (Hexa-decimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length #	Data Type	Multiply Reading By:	Divide Reading By:	NMC Modbus TCP	User Modbus RTU	Valid Response
Dunamia Data							1	T	ı	ı	
Dynamic Data											
Input	0.4000	4000		Fraguency (innut)	4	LUNITAG	0.4	40	V	V	
44097	0x1000 0x1001	4096		Frequency (input)	1	UINT16	0.1	10	X	X	Hz
44098	0x1001 0x1002	4097		Voltage L1 - N	1	UINT16	1 1	1	X	X ×	Vrms
44099	0x1002	4098		Voltage L2 - N	1	UINT16	1 1	1	X	X	Vrms
44100 44101	0x1003	4099 4100		Voltage L3 - N Voltage L1-2 (input)	1	UINT16 UINT16	1 1	1		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Vrms
44101	0x1004 0x1005			Voltage L1-2 (input)	1		1 1	1		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Vrms
		4101		• , , ,	1	UINT16	1 1	1	\ V	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Vrms
44103 44104	0x1006	4102		Voltage L3-1 (input) Current L1 (input)	1 1	UINT16	1 1	1	X	\ \frac{\lambda}{}	Vrms
44104	0x1007 0x1008	4103 4104		Current L1 (input) Current L2 (input)	1 1	UINT16 UINT16	1	1	X	X	amps
44106	0x1008 0x1009				1	UINT16	1	1	X	X	amps
44107	0x1009 0x100A	4105		Current L3 (input) Active power L1 (input)	1	UINT16	1 1	1		X	kW
44107	0x100A 0x100B	4106 4107		Active power L2 (input)	1	UINT16	1 1	1		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
44109	0x100B	4107		Active power L2 (input)	1	UINT16	1 1	1	X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	kW kW
44110	0x100C			Apparent power L1 (input)	1		1 1	1			kVA
	0x100D 0x100E	4109			1	UINT16	1 1	1	X	\ \ \ \ \ \	
44111 44112	0x100E 0x100F	4110	_	Apparent power L2 (input)	1	UINT16	1 1	1		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	kVA
		4111	_	Apparent power L3 (input)	1	UINT16	0.04	•	X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	kVA
44113	0x1010	4112		Power factor L1	1	UINT16	0.01	100	X	X	
44114	0x1011	4113		Power factor L2	1	UINT16	0.01	100	X	X	
44115	0x1012	4114		Power factor L3	1	UINT16	0.01	100	X	X	
44116	0x1013	4115		Total active power (input)	1	UINT16	1	1	X		kW
44117	0x1014	4116		Total apparent power (input)	1	UINT16	1	1	X	Λ	kVA
Bypass	0:4100	4050		[Fragues and the reason	4	LUNITAG	0.4	40	V	V	
44353	0x1100	4352		Frequency (bypass)	1	UINT16	0.1	10	\ \ V	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Hz
44354	0x1101	4353		Voltage L1-N (bypass)	1	UINT16	1	1	X	X	Vrms
44355	0x1102	4354		Voltage L2-N (bypass)	1	UINT16	1	1	X	X	Vrms
44356	0x1103	4355		Voltage L3-N (bypass)	1	UINT16	1	1	X	X	Vrms
44357	0x1104	4356		Voltage L1-2 (bypass)	1	UINT16	1	1	X	X	Vrms
44358	0x1105	4357		Voltage L2-3 (bypass)	1	UINT16	1 1	1	X	X	Vrms
44359	0x1106	4358		Voltage L3-1 (bypass)	1	UINT16	1 1	1	X	X	Vrms
44360	0x1107	4359		Current L1 (bypass)	1	UINT16	1	1	X	X	amps
44361	0x1108	4360		Current L2 (bypass)	1	UINT16	1	1	X	X	amps
44362	0x1109	4361		Current L3 (bypass)	1	UINT16	1 1	1	X	X	amps
44363	0x110A	4362		Active power L1 (bypass)	1	UINT16	1 1	1	X		kW
44364	0x110B	4363		Active power L2 (bypass)	1	UINT16	1	1	X		kW
44365	0x110C	4364		Active power L3 (bypass)	1	UINT16	1	1	X		kW
44366	0x110D	4365		Apparent power L1 (bypass)	1	UINT16	1 1	1	X		kVA
44367	0x110E	4366		Apparent power L2 (bypass)	1	UINT16	1 1	1	X		kVA
44368	0x110F	4367		Apparent power L3 (bypass)	1	UINT16	1	1	X		kVA
44369	0x1110	4368		Power factor L1	1	UINT16	0.01	100	X	X	
44370	0x1111	4369		Power factor L2	1	UINT16	0.01	100	X	X	
44371	0x1112	4370		Power factor L3	1	UINT16	0.01	100	X	X	
44372	0x1113	4371		Total active power (bypass)	1	UINT16	1	1	X		kW
44373	0x1114	4372		Total apparent power (bypass)	1	UINT16	1	1	X	X	kVA

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Modicon Standard	Absolute Starting						† – –				
Register Number	Register Address,	Absolute Starting									
	(Hexa-decimal)	Register Address,					Multiply	Divide	NMC		
		(Decimal)			Length #		Reading	Reading	Modbus	User Modbus	
			Bit	Data Point	registers	Data Type	By:	By:	TCP	RTU	Valid Response
Output											
44609	0x1200	4608		Frequency	1	UINT16	0.1	10	Х	Х	Hz
44610	0x1201	4609		Voltage L1-N	1	UINT16	1	1	X		Vrms
44611	0x1202	4610		Voltage L2-N	1	UINT16	1	1	Х		Vrms
44612	0x1203	4611		Voltage L3-N	1	UINT16	1	1	Х		Vrms
44613	0x1204	4612		Voltage L1-2	1	UINT16	1	1	X		Vrms
44614	0x1205	4613		Voltage L2-3	1	UINT16	1 1	1	X		Vrms
44615 44616	0x1206 0x1207	4614		Voltage L3-1 Current L1	1	UINT16	1 1	1	X		Vrms
44617	0x1207	4615 4616		Current L2	1	UINT16 UINT16	1	1	X		amps amps
44618	0x1209	4617		Current L3	1 1	UINT16	1 1	1	X		amps
44619	0x120A	4618		Active power L1	1	UINT16	1	1	X		kW
44620	0x120B	4619		Active power L2	1	UINT16	1	1	X	Х	kW
44621	0x120C	4620		Active power L3	1	UINT16	1	1	Х	Х	kW
44622	0x120D	4621		Apparent power L1	1	UINT16	1	1	X		kVA
44623	0x120E	4622		Apparent power L2	1	UINT16	1	1	X		kVA
44624 44625	0x120F 0x1210	4623	_	Apparent power L1 percentage	1	UINT16 UINT16	0.1	10	X		kVA
44625	0x1210 0x1211	4624 4625		Apparent poewer L1 percentage Apparent poewer L2 percentage	1	UINT16 UINT16	0.1	10	X		% %
44627	0x1211	4626		Apparent poewer L2 percentage Apparent poewer L3 percentage	1	UINT16	0.1	10	X		70 %
44628	0x1213	4627		Total active power	1	UINT16	1	1	X		kW
44629	0x1214	4628		Power factor L1	1	UINT16	0.01	100	X		power factor
44630	0x1215	4629		Power factor L2	1	UINT16	0.01	100	Х		power factor
44631	0x1216	4630		Power factor L3	1	UINT16	0.01	100	Х		power factor
44632	0x1217	4631		Total apparent power	1	UINT16	1	1	Х		kVA
		4632									%
44633	0x1218	1002		Total load percentage	1	UINT16	0.1	10	Х	X	
Battery				The highest better, temperature from the connected							
44865	0x1300	4864		The highest battery temperature from the connected temperature sensors	1	UINT16	0.1	10	v	Х	l°C
44866	0x1301	4865			1	UINT16	1	10	X		V
441000	OX1001	+000		The present battery voltage (V) The present battery current (A). A positive current	'	Ontrio	 '			, , , , , , , , , , , , , , , , , , ,	
44867	0x1302	4866		indicates that the battery is charging; a negative current	2	INT32	1	1	Х	X	A
				indicates that the battery is discharging.							
		4868		The present DC power being drawn from the battery in							kW
44869	0x1304			kW	1	UINT16	1	1	X	X	
44870	0x1305	4869		Estimated time for recharging the battery	2	UINT32	1	1	Х	Х	S lov
		4871		The present battery charge, as a percentage of full							%
44872	0x1307			charge capacity	1	UINT16	1	1	X	X	
				The amount of the shortest Holland							s
44070	0.4000	4872		The amount of time before the batteries reach the low-	_	LUNITOO		4		, , , , , , , , , , , , , , , , , , ,	
44873	0x1308		1	voltage shutdown level	2	UINT32	1	1	X	Х	Only available on Llear Madhus DTU
											Only available on User Modbus RTU. 0=Charging
44875	0x130A	4874		The operation mode of the charger							1=Discharging
					1	ENUM					2=Resting
44076	0v420D	4075		The general condition of the charges	4				V		
44876	0x130B	4875		The general condition of the charger	1				Λ	Х	
				Float Charge							1=FLOAT charge
			0	1 loat Charge							
				Boost Charge							1=BOOST charge
			1								
				OFF							1=OFF
			4								
			x	Reserved							
			<u> </u>							_	0=open
44877	0x130C	4876		Combined status of battery breakers	1	ENUM			X	V	1=closed
44878	0x130D	4877		Reserved	1				Х	Х	
· -			1	•			1			. ••	•

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Modicon Standard Register Number	Absolute Starting Register Address, (Hexa-decimal)	Absolute Starting Register Address, (Decimal)			Length #		Multiply Reading	Divide Reading	NMC Modbus	User Modbus	
		(Beolinal)	Bit	Data Point	registers	Data Type	By:	By:	TCP	RTU	Valid Response
	1										
44879	0x130E	4878		Status of battery self-test. Can indicate the battery test status triggered by user-commanded or scheduled self-test	1				Х	Х	
			0	Test is pending		BOOLEAN					Battery self-test inactive
			1	Test in progress		BOOLEAN					Battery self-test is running
			2	Test complete		BOOLEAN					Self-Test is completed
			3	Test failed		BOOLEAN					Self-test is failed
				Test was refused		BOOLEAN					Self-test is aborted due to user command
				Test was aborted		BOOLEAN					Self-test is aborted due to system critical alarm
				source modifier		BOOLEAN					Battery self-test state unknown
			-	Reserved		BOOLEAN					
	0.4005	40-0	X			BOOLEAN					
44880	0x130F	4879		Reserved	1				Х	Х	
44881	0x1310	4880		Status indicates the battery health state result from battery test	1	ENUM			х	Х	0=Unknown 1=BatteryOk 2=BatteryCapacityReduced 3=BatteryDefect 4=Not defined -127= Not defined
44882	0x1311	4881		Measurement of the total available battery capacity in Ah for the UPS	1	UINT16	1	1	Х	Х	Ah
44883	0x1312	4882		Reserved	1	UINT32	1	1	Х	X	
44884	0x1313	4883		Reserved	1	UINT32	1	1	X	Х	
System											
45377	0x1500	5376		Ambient temperature	1	UINT16	0.1	10	Х	Х	°C
45378	0x1501	5377		General Switch gear status	1				X	X	Bit mask For each bit, 0 = open, 1 =closed
			0	UIB		BOOLEAN					1=Closed
			1	SSIB		BOOLEAN					1=Closed
				IMB UOB		BOOLEAN BOOLEAN					1=Closed 1=Closed
			4	SIB		BOOLEAN					1=Closed
			5	Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
				Reserved Reserved		BOOLEAN BOOLEAN					
				MBB		BOOLEAN					1=Closed
			11	Reserved		BOOLEAN					
			12	Reserved		BOOLEAN					
				Reserved		BOOLEAN					
,				Reserved Reserved		BOOLEAN		Ī	1		

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Modicon Standard Register Number	Absolute Starting Register Address, (Hexa-decimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	Re	1 ultiply	Divide Reading By:	NMC Modbus TCP	User Modbus RTU	Valid Response
45379	0x1502	5378		UPS mode operation mode of the UPS	2	ENUM			X	X	Initialize/Off Operation = 0x10 Self Test = 0x90 Battery Operation = 0x04 Normal Operation = 0x02 Request Static Bypass = 0x408 Forced Static Bypass = 0x28 Maintenance Bypass = 0x808 ECO Mode = 0x2008 Hot Standby = Reserved Inverter Standby = Reserved Static Bypass Standby = Reserved Battery Test = 0x84 Inverter Spot = 0x82
45381	0x1504	5380		System operation mode	1	ENUM			Х	Х	
				Reserved		BOOLEAN					
				System: inverter on requested static bypass		BOOLEAN BOOLEAN					System is in inverter operation
				Force static bypass		BOOLEAN					System is in requested static bypass operation System is in forced static bypass operation
				Initialize/off		BOOLEAN					System is in off operation
				Inverter SPOT		BOOLEAN					System is in Inverter SPOT operation
				Maintenance Bypass		BOOLEAN					System is in maintenance bypass operation
			7	ECO Mode		BOOLEAN					System is in ECO bypass operation
				eConversion(AdvEcoMode)		BOOLEAN					System is in ECOnversion operation
				Static Bypass Standby		BOOLEAN					System is in static bypass standby operation
				Reserved		BOOLEAN					
				Reserved Reserved		BOOLEAN BOOLEAN					
				Reserved		BOOLEAN					
				Reserved		BOOLEAN					
			15	Reserved		BOOLEAN					
45382	0x1505	5381		Power module present status	1	UINT16			X	Х	
				PM 1 present		BOOLEAN					1=PM1 present
				PM 2 present		BOOLEAN					1=PM2 present
				PM 3 present		BOOLEAN					1=PM3 present
				PM 4 present PM 5 present		BOOLEAN BOOLEAN					1=PM4 present
	+			PM 6 present		BOOLEAN	+				1=PM5 present 1=PM6 present
			Х	Reserved		BOOLEAN					
45383	0x1506	5382		External breaker status	1	UINT16			Χ	Х	
	1			Reserved		BOOLEAN					
	1	-		Reserved		BOOLEAN					
				Reserved Reserved		BOOLEAN BOOLEAN					
	+	 		Reserved		BOOLEAN					
				Reserved		BOOLEAN					
			6	Reserved		BOOLEAN					
				Reserved		BOOLEAN	\Box T				
				Reserved		BOOLEAN					
	+	+	1	Reserved		BOOLEAN	+				4 Olasad
				Ext. MBB		BOOLEAN					1=Closed
	1	-		Reserved Reserved		BOOLEAN BOOLEAN					
	1			Reserved		BOOLEAN	+				
	†	<u> </u>		Reserved	1	BOOLEAN	+				
	1	1		Reserved		BOOLEAN					

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Modicon Standard Register Number	Absolute Starting Register Address, (Hexa-decimal)	Absolute Starting Register Address, (Decimal)	Data Point	Length # registers	Data Type	Multiply Reading By:	Divide Reading By:	NMC Modbus TCP	User Modbus RTU	Valid Response
NMC										
46401	0x1900	6400	NMC 1 Probe 1 temperature measured by sensor	1	UINT16	0.1	10	Х		°C Only available from NMC.
46402	0x1901	6401	NMC 1 probe 1 humidity measured by sensor	1	UINT16	0.1	10	Х		% RH Only available from NMC.
46403	0x1902	6402	NMC 1 probe 2 temperature measured by sensor	1	UINT16	0.1	10	Х		°C Only available from NMC.
46404	0x1903	6403	NMC 1 probe 2 humidity measured by sensor	1	UINT16	0.1	10	Х		% RH Only available from NMC.
46405	0x1904	6404	NMC 2 probe 1 temperature measured by sensor	1	UINT16	0.1	10	Х		°C Only available from NMC.
46406	0x1905	6405	NMC 2 probe 1 humidity measured by sensor	1	UINT16	0.1	10	Х		% RH Only available from NMC.
46407	0x1906	6406	NMC 2 probe 2 temperature measured by sensor	1	UINT16	0.1	10	X		°C Only available from NMC.
46408	0x1907	6407	NMC 2 probe 2 humidity measured by sensor	1	UINT16	0.1	10	X		% RH Only available from NMC.
46409	0x1908	6408	Sensor type NMC 1 sensor 1	1	UINT16			х		0=unknown 1=temperature only 2=temperature and humidity 3=dry contactor 4=Not defined -32768 = Not defined
46410	0x1909	6409	Sensor type NMC 1 sensor 2	1	UINT16			х		0=unknown 1=temperature only 2=temperature and humidity 3=dry contactor 4=Not defined -32768 = Not defined
46411	0x190A	6410	Sensor type NMC 2 sensor 1	1	UINT16			x		0=unknown 1=temperature only 2=temperature and humidity 3=dry contactor 4=Not defined -32768 = Not defined
46412	0x190B	6411	Sensor type NMC 2 sensor 2	1	UINT16			х		0=unknown 1=temperature only 2=temperature and humidity 3=dry contactor 4=Not defined -32768 = Not defined

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Modicon Standard	Absolute Starting										
Register Number	Register Address,	Absolute Starting									
	(Hexa-decimal)	Register Address,					Multiply	Divide	NMC		
		(Decimal)	D.,	Data Data	Length #	.	Reading	Reading	Modbus	User Modbus	
			Bit	Data Point	registers	Data Type	By:	By:	ТСР	RTU	Valid Response
Configuration		Т			T	T	T		I	T	
Data											
48193	0x2000	8192		Mains configuration settings	1	ENUM			Х	X	
				Single input							1=single input
			1 V	Dual inputs							1=Dual inputs
48194	0x2001	8193		UPS voltage settings	1				Х	X	
10101	UNE OF I	0100		Reserved	•					Α	
				Reserved							
				Reserved							
				Reserved							
				Reserved							
				Voltage is 380VAC		+					
				Voltage is 400VAC Voltage is 415VAC							
				Reserved							
			_	110001100							
											$Hz50_1 = 0x80$
											$Hz50_3 = 0x100$
48195	0x2002	8194		Output acceptable frequency settings	2	ENUM			Х	X	$Hz50_10 = 0x200$
											$Hz60_1 = 0x400$
											Hz60_3 = 0x800
				Output system upper acceptable voltage setting	1						$Hz60_10 = 0x1000$
48197	0x2004	8196		percentage	1	UINT16	1	1	Х	X	3~10, %.
48198	0x2005	8197		Switchgear system breaker present settings	1	Olivito	'	'	Х	X	0 - 10, 70.
10100	07.200	0.0.	_	UIB breaker present settings						,	1=UIB present
				SSIB breaker present settings							1=SSIB present
			2	Reserved							
			3	UOB breaker present settings							1=UOB present
				SIB breaker present settings							1=SIB present
				Reserved							
				Reserved Reserved							
				Reserved							
				Reserved							
				Reserved							
				Reserved							
			12	Reserved							
				Reserved							
			14	Ext MBB breaker present settings		1					1=Ext MBB present
40400	0,0000		15	Reserved	2	UINT32	1	1		V	s. Time stamp seconds from 2000/01/01
48199	0x2006	8198		Date and time settings	1	UIN I 32	1	1	X	X	s. Time stamp seconds from 2000/01/01
48201	0x2008	8200		Out of sync bypass transfer delay settings	'	UINT16	1	1		×	Only available from user modbus RTU.
48202	0x2009	8201		The UPS power rating	1	UINT16	1	1		$\frac{\hat{x}}{x}$	kVA
48203	0x200A	8202		Output overload threshold settings	1	UINT16	1	1	Х	X	%
48204	0x200B	8203		Slew rate of the inverter	1	ENUM			Х	Х	
			0	Slew rate is 0.25Hz		BOOLEAN					
				Slew rate is 0.5Hz		BOOLEAN				1	
				Slew rate is 1.0Hz		BOOLEAN				<u> </u>	
	1	1		Slew rate is 2.0Hz		BOOLEAN				1	
	1	-		Slew rate is 4.0Hz Slew rate is 6.0Hz	_	BOOLEAN BOOLEAN			-	1	
				Reserved		BOOLEAN			1	1	
48205	0x200C	8204		Input ramp-in time setting in seconds	1	UINT16			Х	X	s
48206	0x200D	8205		Reserved	1	UINT16	1	1	<u> </u>	X	%. In Wave 2 (Voltage compensation)
48207	0x200E	8206		Reserved	1	UINT16			Х	X	· · · · · · · · · · · · · · · · · · ·
	•	•	•		•	-	•	•	-	•	

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Modicon Standard Register Number	Absolute Starting Register Address, (Hexa-decimal)	Absolute Starting Register Address, (Decimal)		Data Point	Length #	Data Type	Multiply Reading By:	Divide Reading By:	NMC Modbus TCP	User Modbus RTU	Valid Response
					_						N+0 = 0x01
48208	0x200F	8207		Redundancy settings for power modules	1	ENUM			X	X	N+1 = 0x01 N+1 = 0x02
			0	N+0						, , , , , , , , , , , , , , , , , , ,	1=N+0
				N+1							1=N+1
			Х	Reserved							
48209	0x2010	8208		Delay time before autostart of the inverter after input source returns after an outage	1	ENUM				X	-1=autostart disabled 0=autostart enable Only available from user modbus RTU.
48210	0x2011	8209		Battery solution	1	UINT16	1	1		Х	Only available from user modbus RTU.
48211	0x2012	8210		Battery type	1	ENUM			Х	X	
				VRLA		BOOLEAN					
				Reserved Li-ion		BOOLEAN					
				Reserved		DOOLEAN					
				Reserved							
48212	0v2042	0011									CA.
46212	0x2013	8211		Settings for charge current rate by user	1	UINT16	0.01	100		Х	Only available from user modbus RTU.
48213	0x2014	8212					0.4	4.0		V	Celsius.
.02.0	5725	02.2		Settings for battery minimum allowed temperature	1	UINT16	0.1	10		Х	Only available from user modbus RTU.
48214	0x2015	8213		Settings for battery maximum allowed temperature	1	UINT16	0.1	10		X	Celsius. Only available from user modbus RTU.
				Cettings for battery maximum anowed temperature	<u>'</u>	Olivitio	0.1	10			0=Disable
48215	0x2016	8214		Battery deep discharge settings	1	ENUM				Х	1=Enable Only available from user modbus RTU.
10010	0.0047	0045			<u> </u>						%. 5-60
48216	0x2017	8215		The charging capacity based on system kW rating	1	UINT16	1	1		Х	Only available from user modbus RTU.
48217	0x2018	8216		Time of day battery test should start	2	UINT32	1	1	Х	Х	The min should be 0 the max should be 86399 (24 hours).
48219	0x201A	8218		Day of week battery test should start	1	ENUM			Х	X	
48220		8219	0	Test on Monday		BOOLEAN					
48220		8219		Test on Tuesday		BOOLEAN					
48220		8219	_	Test on Wednesday		BOOLEAN					
48220		8219	_	Test on Thursday		BOOLEAN					
			_	-		.					
48220	-	8219	_	Test on Friday		BOOLEAN					
48220		8219	5	Test on Saturday		BOOLEAN					
48220		8219	6	Test on Sunday		BOOLEAN					
48220		8219	х	Reserved		BOOLEAN					
48220	0x201B	8219	+	Settings for automatic test	1	ENUM			Х	Х	
				Never autotest	· ·	BOOLEAN			<u> </u>		
			1	Autotest every week		BOOLEAN			<u>L</u>		
			2	Autotest every 2 weeks		BOOLEAN					
				Autotest every 4 weeks		BOOLEAN					
	<u> </u>			Autotest every 8 weeks Autotest every 12 weeks		BOOLEAN BOOLEAN				 	
				Autotest every 26 weeks		BOOLEAN				 	
				Autotest every 52 weeks		BOOLEAN				1	
				Reserved		BOOLEAN					
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							S	cale				
Modicon Standard	Absolute Starting											
Register Number	Register Address,	Absolute Starting										
	(Hexa-decimal)	Register Address,					Multiply	Divide	NMC			
	((Decimal)			Length #		Reading	Reading	Modbus	User Modbus		
		(33 3)	Bit	Data Point	registers	Data Type	Ву:	Ву:	TCP	RTU	Valid Response	
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