Modbus Register Map: MGE Galaxy 300/ MGE Galaxy 7000

Notes:
1. 16-bit registers are transmitted MSB first (i.e. big-endian).
2. UINT16 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 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 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.
13. The number of word by frame should not exceed 26 words.
14. Register 40072 is only to be used in Parallel Configurations and is not supported for Unitary Configurations.

Note 1: For detailed modbus configuration settings please refer to the AP9635 User's Guide. Note 2: SSC for Static Switch Cabinet.

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Modicon Standard Register Number	Absolute Starting Register Address, (Hexadecimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	Data Type	Multiply Reading By:	Divide Reading By:	Valid Response	Supported Modules
40001	0x0000	0		Over all status of the UPS. 0 = Status unknown 2 = No alarms present 4 = Warning alarms present 8 = Critical alarms present	1	ENUM				
40002	0x0001	1		NMC application name	9	ASCII				
40011	0x000A	10		NMC card model number	9	ASCII				
40020	0x0013	19		NMC card serial number	8	ASCII				
40028	0x001B	27		NMC card hardware revision	9	ASCII				
40037	0x0024	36		NMC card firmware revision	9	ASCII				
40046	0x002D	45		Reserved for future use	5					
40051	0x0032	50		NMC card manufactruing date	6	ASCII				
40057	0x0038	56		Reserved for future use	8					
40065	0x0040	64		Alarm/Status Register	1	UINT16				
			0	*Load powered (protected or not)*		BOOLEAN			0: Output is not powered. 1: Output is powered.	
			1	*Load Protected (UPS coupled)*		BOOLEAN			0: Inverter is not used 1: Inverter is used	Not supported by Galaxy 7000 SSC
			2	*Internal UPS hardware fault exists*		BOOLEAN			1 - An internal UPS hardware fault exists	
			3	*NA*		BOOLEAN				
			4	*Battery usage status*		BOOLEAN			1 - On battery power in response to an input power problem	Not supported by Galaxy 7000 SSC
			5	*Battery low warning*		BOOLEAN			1 - Low battery	Not supported by Galaxy 7000 SSC
			6	*Low battery*		BOOLEAN			1 - Ups is in shutdown state	
			7	*Operation on static switch*		BOOLEAN			1 - (In bypass) Bypass AC Input is used as source of power	Galaxy 7000 parallel SSC
			8	*Modbus data Invalid*		BOOLEAN			1 - Modbus Data Not valid	
			9	*Communication fault*		BOOLEAN			1 - UPS serial communication fault exists	
			10	*UPS overload*		BOOLEAN			1 - UPS output overload	
			11	*Emergency stop*		BOOLEAN			1 - Emergency stop in progess	
			12	*UPS Temperature Fault*		BOOLEAN			1 - UPS temperature fault	
			13	*Battery to be checked or External battery monitoring fault*		BOOLEAN			1 - Battery Replacement needed	Not supported by Galaxy 7000 SSC
			14	*Device ventilation fault*		BOOLEAN			1 - System level fan fault exists	
			15	*Load Alarm Violation Fault*		BOOLEAN			1 - Alarm violation present 0 - Alarm violation not present	
40066	0x0041	65		Alarm/Status Register	1	UINT16				
			0	*Run in Frequency converter*		BOOLEAN			0 - Power converter currently works on auto ranging 1 - Power converter currently works on frequency converter	Not supported by Galaxy 7000 SSC
			1 2 3	*1 - Unitary 3: 3 (Galaxy 7000 & Galaxy 300)* *2 - Modular 3: 3 (Galaxy 7000 & Galaxy 300) 3 - Galaxy 7000 parallel with SSC* *4 - Galaxy 7000 SSC* *5 - Galaxy 300 unitary 3:1* *6 - Galaxy 300 modular 3:1*		BOOLEAN			0 0 1 - Galaxy 7000 Unitary 0 1 0 - Galaxy 7000 Modular 0 1 1 - Galaxy 7000 Parallel with SSC 1 0 0 - Galaxy 7000 SSC 0 0 1 - Galaxy 300 Unitary 33 1 0 1 - Galaxy 300 Unitary 31 0 1 0 - Galaxy 300 Redundant 33 1 1 0 - Galaxy 300 Redundant 31	

Modicon Standard Register Number	Absolute Starting Register Address, (Hexadecimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	Data Type	Multiply Reading By:	Divide Reading By:	Valid Response	Supported Modules
			4	*NA*		BOOLEAN				
			5	*NA*		BOOLEAN				
			6	*Maintenance bypass switch status*		BOOLEAN			1 - Maintenance bypass switch closed	
			7	*NA*		BOOLEAN				
			8	*NA*						
			9	*Rectifier internal fault status*		BOOLEAN			1 - Rectifier internal fault exists	
			10	*Load protection status in parallel installation*		BOOLEAN			0 - Load protection is restored 1 - Load protection is lost due to less number of good power modules	Not supported by Galaxy 7000 SSC
			11	*UPS Power Saving Mode status*		BOOLEAN			0 - UPS not in Power Saving Mode (Efficiency Booster Mode) 1 - UPS is running in Power Saving Mode (EBM)	Only on G7000
			12	*UPS environnement fault*		BOOLEAN			0 - No UPS environnental fault 1 - UPS environnemntal fault or ups minor fault	Only on G7000
			13	*ECO mode status*		BOOLEAN			0 - UPS not in ECO Mode 1 - UPS is running in ECO Mode	Only on G7000
			14	*NA*		BOOLEAN				
			15	*NA*		BOOLEAN				
40067	0x0042	66		Alarm/Status Register	1	UINT16				
			0	*Installed battery status*		BOOLEAN			1 - Battery present	
			1	*NA*		BOOLEAN				
			2	*Battery test result*		BOOLEAN			1 - Battery test failed (Done and Error)	
			3	*NA*		BOOLEAN				
			4	*NA*		BOOLEAN				
			5	*NA*		BOOLEAN				
			6	*NA*		BOOLEAN				
			7	*NA*		BOOLEAN				
			8	*Battery test in progress*		BOOLEAN			1 - Test in progress	
			9	*NA*		BOOLEAN				
			10	*Internal battery temperature status*		BOOLEAN			1 - The internal battery temperature exceeds the critical threshold	Not supported by Galaxy 7000 SSC
			11	*NA*		BOOLEAN				
			12	*NA*		BOOLEAN				
			13	*NA*		BOOLEAN				
			14	*NA*		BOOLEAN				
			15	*Battery switch status*		BOOLEAN			1 - Battery switch closed	Not supported by Galaxy 7000 SSC
40069	0x0044	68		Alarm/Status Register	1	UINT16				
			0	*NA*		BOOLEAN				
			1	*NA*		BOOLEAN				
			2	*NA*		BOOLEAN				
			3	*Main AC switch status*		BOOLEAN			1 - Main AC switch closed	Not supported by Galaxy 300
			4	*NA*		BOOLEAN				
			5	*NA*		BOOLEAN				
			6	*NA*		BOOLEAN				
			7	*NA*		BOOLEAN				
			8	*Main AC voltage status*		BOOLEAN			1 - Main AC is not OK/Voltage out of range	Not supported by Galaxy 7000 SSC
			9	*Main AC fuse status*		BOOLEAN			1 - Main AC fault (open)	Not supported by Galaxy 7000 SSC
			10	*NA*		BOOLEAN				
			11	*Main AC frequency status*		BOOLEAN			1 - Main AC frequency out of range	Not supported by Galaxy 7000 SSC
			12	*NA*		BOOLEAN				
			13	*NA*		BOOLEAN				
			14	*NA*		BOOLEAN				
			15	*NA*		BOOLEAN				
40070	0x0045	69		Alarm/Status Register	1	UINT16				
			0	*NA*		BOOLEAN				
			1	*NA*		BOOLEAN				
			2	*NA*		BOOLEAN				
			3	*NA*		BOOLEAN				
			4	*NA*		BOOLEAN				
			5	*Status of the input contact 1*		BOOLEAN			1 - Input contact 1 fault exist	
			6	*Status of the input contact 2*		BOOLEAN			1 - Input contact 2 fault exist	
			7	*UPS Redundancy status*		BOOLEAN			1 - Power modules redundancy is lost	
			8	*NA*						
			9	*K2S fault status*		BOOLEAN			1 - K2S fault exist	Only Galaxy 7000 SSC supported
			10	*K2S switch on/off status*		BOOLEAN			1 - K2S swtich on (close)	Only Galaxy 7000 SSC supported
			11	*Overlap transfert on SSC status*		BOOLEAN			1 - Overlap transfert fault exists	Only Galaxy 7000 SSC supported
			12	*NA*		BOOLEAN				
			13	*NA*		BOOLEAN				
			14	*NA*		BOOLEAN				
			15	*NA*		BOOLEAN				

Modicon Standard Register Number	Absolute Starting Register Address, (Hexadecimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	Data Type	Multiply Reading By:	Divide Reading By:	Valid Response	Supported Modules
40071	0x0046	70		Alarm/Status Register	1	UINT16				
			0	*NA*		BOOLEAN				
			1	*UPS maintenance bypass status*		BOOLEAN			0 - UPS is not in maintenance bypass 1 - UPS is in maintenance bypass	Galaxy 7000 parallel with SSC
			2	*NA*		BOOLEAN				
			3	*NA*		BOOLEAN				
			4	*NA*		BOOLEAN				
			5	*Bypass overload status*		BOOLEAN			0 - Bypass input power not overload 1 - Bypass input power overload	Galaxy 7000 parallel with SSC
			6	*Bypass thermal overload status*		BOOLEAN			0 - No thermal overload on bypass input 1 - Thermal overload exists on bypass input	Galaxy 7000 parallel with SSC
			7	*Bypass swtich fault status*		BOOLEAN			0 - No fault in bypass swtich 1 - Bypass swtich is in fault condition	Galaxy 7000 parallel with SSC
			8	*NA*		BOOLEAN				
			9	*Bypass frequency status*		BOOLEAN			0 - Bypass frequency in range 1 - Bypass frequency out of range	Galaxy 7000 parallel with SSC
			10	*Bypass voltage status*		BOOLEAN			0 - Bypass voltage in range 1 - Bypass voltage out of range	Galaxy 7000 parallel with SSC
			11	*NA*						
			12	*NA*		BOOLEAN				
			13	*NA*		BOOLEAN				
			14	*Bypass switch status*		BOOLEAN			1 - Bypass switch closed	Galaxy 7000 parallel with SSC
			15	*NA*		BOOLEAN				
40072	0x0047	71		Alarm/Status Register	1	UINT16				Parallel configurations only
			0	*Internal bypass hardware fault exists*		BOOLEAN			0 - Hardware fault no longer exist 1 - Hardware fault due to Bypass internal fault (fuse, relay, …)	
			1	*Inverter and AC bypass desynchronisation*		BOOLEAN			0 - Ups synchronised with AC bypass, 1 - Ups is not synchronised with the AC bypass	
			2	*NA*		BOOLEAN				
			3	*NA*		BOOLEAN				
			4	*NA*		BOOLEAN				
			5	*NA*		BOOLEAN				
			6	*NA*		BOOLEAN				
			7	*NA*		BOOLEAN				
			8	*NA*		BOOLEAN				
			9	*NA*		BOOLEAN				
			10	*NA*		BOOLEAN				
			11	*Output switch status*		BOOLEAN			1 - Output switch closed	
			12	*NA*		BOOLEAN				
			13	*NA*		BOOLEAN				
			14	*NA*		BOOLEAN				
			15	*NA*		BOOLEAN				
40073	0x0048	72		Alarm/Status Register	1	UINT16				
			0	*Input contact 1 status*		BOOLEAN			1 - input contact 1 closed	
			1	*Input contact 2 status*		BOOLEAN			1 - input contact 2 closed	
			2	*NA*		BOOLEAN				
			3	*NA*		BOOLEAN				
			4	*NA*		BOOLEAN				
			5	*NA*		BOOLEAN				
			6	*NA*		BOOLEAN				
			7	*NA*		BOOLEAN				
			8	*Input Contact 1 COSIT*		BOOLEAN			1 - Input contact 1 closed 0 - Input contact 1 open	Not supported by Galaxy 300
			9	*Input Contact 2 COSIT*		BOOLEAN			1 - Input contact 2 closed 0 - Input contact 2 open	Not supported by Galaxy 300
			10	*Input Contact 3 COSIT*		BOOLEAN			1 - Input contact 3 closed 0 - Input contact 3 open	Not supported by Galaxy 300
			11	*Input Contact 4 COSIT*		BOOLEAN			1 - Input contact 4 closed 0 - Input contact 4 open	Not supported by Galaxy 300
			12	*NA*		BOOLEAN				
			13	*NA*		BOOLEAN				
			14	*NA*		BOOLEAN				
			15	*NA*		BOOLEAN				

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40074	0x0049	73		Alarm/Status Register	1	UINT16				
			0	*Charger hardware fault exists*		BOOLEAN			1- Hardware fault due to charger malfunction	Not present for Galaxy 7000 SSC
			1	*NA*		BOOLEAN				
			2	*NA*		BOOLEAN				
			3	*Battery charging status*		BOOLEAN			1 - Battery is charging	Not present for Galaxy 7000 SSC
			4	*NA*		BOOLEAN				
			5	*NA*		BOOLEAN				
			6	*NA*		BOOLEAN				
			7	*NA*		BOOLEAN				
			8	*NA*		BOOLEAN				
			9	*NA*		BOOLEAN				
			10	*NA*		BOOLEAN				
			11	*NA*		BOOLEAN				
			12	*NA*		BOOLEAN				
			13	*NA*		BOOLEAN				
			14	*NA*		BOOLEAN				
			15	*NA*		BOOLEAN				
40075	0x004A	74		Alarm/Status Register	1	UINT16				
			0	*EBM setting*		BOOLEAN			1 - Efficiency Booster Mode feature is available	Only on G7000
			1	*ECO setting*		BOOLEAN			1 - ECO mode feature is available	Only on G7000
			2	*ECO Scheduling setting*		BOOLEAN			1 - Scheduled ECO mode feature is available	Only on G7000
			3	*NA*		BOOLEAN				
			4	*NA*		BOOLEAN				
			5	*NA*		BOOLEAN				
			6	*NA*		BOOLEAN				
			7	*NA*		BOOLEAN				
			8	*NA*		BOOLEAN				
			9	*NA*		BOOLEAN				
			10	*NA*		BOOLEAN				
			11	*NA*		BOOLEAN				
			12	*NA*		BOOLEAN				
			13	*NA*		BOOLEAN				
			14	*NA*		BOOLEAN				
			15	*NA*		BOOLEAN				
40076	0x004B	75		Reserved for future use						
			0	*NA*		BOOLEAN				
			1	*NA*		BOOLEAN				
			2	*NA*		BOOLEAN				
			3	*NA*		BOOLEAN				
			4	*NA*		BOOLEAN				
			5	*NA*		BOOLEAN				
			6	*NA*		BOOLEAN				
			7	*NA*		BOOLEAN				
			8	*NA*		BOOLEAN				
			9	*NA*		BOOLEAN				
			10	*NA*		BOOLEAN				
			11	*NA*		BOOLEAN				
			12	*NA*		BOOLEAN				
			13	*NA*		BOOLEAN				
			14	*NA*		BOOLEAN				
			15	*NA*		BOOLEAN				
40077	0x004C	76		Alarm/Status Register	1	UINT16				
			0	*NA*		BOOLEAN				
			1	*Inverter major fault*		BOOLEAN			1 - Failure due to inverter malfunction	Not present for Galaxy 7000 SSC
			2	*Inverter overload status*		BOOLEAN			1 - Inverter Overload	Not present for Galaxy 7000 SSC
			3	*Inverter thermal overload status*		BOOLEAN			1 - Thermal overload	Not present for Galaxy 7000 SSC
			4	*Inverter limitation status*		BOOLEAN			0 - No current limitation 1 - Current limitation	Not present for Galaxy 7000 SSC
			5	*UPS fuse fault*		BOOLEAN			0 - No fuse or fuse closed 1 - Fuse open	Not present for Galaxy 7000 SSC
			6	*NA*		BOOLEAN				
			7	*NA*		BOOLEAN				
			8	*NA*		BOOLEAN				
			9	*NA*		BOOLEAN				
			10	*NA*		BOOLEAN				
			11	*NA*		BOOLEAN				
			12	*NA*		BOOLEAN				
			13	*NA*		BOOLEAN				
			14	*NA*		BOOLEAN				
			15	*NA*		BOOLEAN				

Modicon Standard Register Number	Absolute Starting Register Address, (Hexadecimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	Data Type	Multiply Reading By:	Divide Reading By:	Valid Response	Supported Modules
40078	0x004D	77		Reserved for future use	2					
40080	0x004F	79		Alarm/Status Register	1	UINT16				
			0	*NA*		BOOLEAN				
			1	*Short circuit on output status*		BOOLEAN			1 - Short circuit fault exixts	
			2	*NA*		BOOLEAN				
			3	*NA*		BOOLEAN				
			4	*NA*		BOOLEAN				
			5	*NA*		BOOLEAN				
			6	*NA*		BOOLEAN				
			7	*NA*		BOOLEAN				
			8	*NA*		BOOLEAN				
			9	*NA*		BOOLEAN				
			10	*NA*		BOOLEAN				
			11	*NA*		BOOLEAN				
			12	*NA*		BOOLEAN				
			13	*NA*		BOOLEAN				
			14	*NA*		BOOLEAN				
			15	*NA*		BOOLEAN				
40081	0x0050	80		Reserved for future use	48					
40225	0x00E0	224		Time on ECO mode since commissionning	2	UINT32			Second	Not present for Galaxy 300
40227	0x00E2	226		Time on ECO mode since reset	2	UINT32			Second	Not present for Galaxy 300
40229	0x00E4	228		Time OnLine since commissionning ECO	2	UINT32			Second	Not present for Galaxy 300
40231	0x00E6	230		Time OnLine since reset ECO	2	UINT32			Second	Not present for Galaxy 300
40233	0x00E8	232		Percent time spent on ECO since commissionning	1	UINT16			%	Not present for Galaxy 300
40234	0x00E9	233		Percent time spent on ECO since reset	1	UINT16			%	Not present for Galaxy 300
40235	0x00EA	234		Number time running in ECO mode	1	UINT16				Not present for Galaxy 300
40236	0x00EB	235		Monthly time in ECO mode	2	UINT32			Second	Not present for Galaxy 300
40238	0x00ED	237		Reserved for future use	3					
40241	0x00F0	240		Time on PSM since commissionning	2	UINT32			Second	Not present for Galaxy 300
40243	0x00F2	242		Time on PSM since reset	2	UINT32			Second	Not present for Galaxy 300
40245	0x00F4	244		Time OnLine since commissionning PSM	2	UINT32			Second	Not present for Galaxy 300
40247	0x00F6	246		Time OnLine since reset PSM	2	UINT32			Second	Not present for Galaxy 300
40249	0x00F8	248		Percent time spent on PSM since commissionning	1	UINT16			%	Not present for Galaxy 300
40250	0x00F9	249		Percent time spent on PSM since reset	1	UINT16			%	Not present for Galaxy 300
40251	0x00FA	250		Number time running in PSM	1	UINT16				Not present for Galaxy 300
40252	0x00FB	251		Monthly time in PSM	2	UINT32			Second	Not present for Galaxy 300
40254	0x00FD	253		Number of G7000 in PSM	1	UINT16				Not present for Galaxy 300
40255	0x00FE	254		Reserved for future use	2					
40257	0x0100	256		Mains input phase 1 current	1	UINT16			Amps	Not present for Galaxy 7000 SSC
40258	0x0101	257		Mains input phase 2 current	1	UINT16			Amps	Not present for Galaxy 7000 SSC
40259	0x0102	258		Mains input phase 3 current	1	UINT16			Amps	Not present for Galaxy 7000 SSC
40260	0x0103	259		Reserved for future use	3					
40263	0x0106	262		Bypass input phase 1current	1	UINT16			Amps	Not present for Galaxy 7000 parallel with SSC
40264	0x0107	263		Bypass input phase 2 current	1	UINT16			Amps	Not present for Galaxy 7000 parallel with SSC
40265	0x0108	264		Bypass input phase 3 current	1	UINT16			Amps	Not present for Galaxy 7000 parallel with SSC
40266	0x0109	265		Output phase 1 current	1	UINT16			Amps	
40267	0x010A	266		Output phase 2 current	1	UINT16			Amps	Not present for Galaxy 300 3:1
40268	0x010B	267		Output phase 3 current	1	UINT16			Amps	Not present for Galaxy 300 3:1
40269	0x010C	268		Reserved for future use	2					
40271	0x010E	270		Battery current	1	INT16			Amps	Not present for Galaxy 7000 SSC
40272	0x010F	271		Reserved for future use	6					
40278	0x0115	277		Mains input phase 1 to phase 2 voltage	1	UINT16			Volts	Not present for Galaxy 7000 SSC
40279	0x0116	278		Mains input phase 2 to phase 3 voltage	1	UINT16			Volts	Not present for Galaxy 7000 SSC
40280	0x0117	279		Mains input phase 3 to phase 1 voltage	1	UINT16			Volts	Not present for Galaxy 7000 SSC
40281	0x0118	280		Reserved for future use	6					
40287	0x011E	286		Bypass input phase 1 to neutral voltage	1	UINT16			Volts	Not present for Galaxy 7000 parallel with SSC
40288	0x011F	287		Bypass input phase 2 to neutral voltage	1	UINT16			Volts	Not present for Galaxy 7000 parallel with SSC
40289	0x0120	288		Bypass input phase 3 to neutral voltage	1	UINT16			Volts	Not present for Galaxy 7000 parallel with SSC
40290	0x0121	289		Bypass input phase 1 to phase 2 voltage	1	UINT16			Volts	Not present for Galaxy 7000 parallel with SSC
40291	0x0122	290		Bypass input phase 2 to phase 3 voltage	1	UINT16			Volts	Not present for Galaxy 7000 parallel with SSC
40292	0x0123	291		Bypass input phase 3 to phase 1 voltage	1	UINT16			Volts	Not present for Galaxy 7000 parallel with SSC
40293	0x0124	292		Output phase 1 to neutral voltage	1	UINT16			Volts	
40294	0x0125	293		Output phase 2 to neutral voltage	1	UINT16			Volts	Not present for Galaxy 300 3:1
40295	0x0126	294		Output phase 3 to neutral voltage	1	UINT16			Volts	Not present for Galaxy 300 3:1
40296	0x0127	295		Output phase 1 to phase 2 voltage	1	UINT16			Volts	Not present for Galaxy 300 3:1
40297	0x0128	296		Output phase 2 to phase 3 voltage	1	UINT16			Volts	Not present for Galaxy 300 3:1
40298	0x0129	297		Output phase 3 to phase 1 voltage	1	UINT16			Volts	Not present for Galaxy 300 3:1
40299	0x012A	298		Reserved for future use	1					
40300	0x012B	299		UPS Temperature in deg F	1	UINT16			°F	
40301	0x012C	300		UPS Temperature in deg C	1	UINT16			°C	
40302	0x012D	301		Battery voltage	1	UINT16			Volts	Not present for Galaxy 7000 SSC
40303	0x012E	302		Reserved for future use	2					
40305	0x0130	304		Output phase 1 active power	1	UINT16			kW	Not present for Galaxy 300 3:1
40306	0x0131	305		Output phase 2 active power	1	UINT16			kW	Not present for Galaxy 300 3:1
40307	0x0132	306		Output phase 3 active power	1	UINT16			kW	Not present for Galaxy 300 3:1
40308	0x0133	307		Output phase 1 apparent power	1	UINT16			kVA	Not present for Galaxy 300 3:1

Modicon Standard Register Number	Absolute Starting Register Address, (Hexadecimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	Data Type	Multiply Reading By:	Divide Reading By:	Valid Response	Supported Modules
40309	0x0134	308		Output phase 2 apparent power	1	UINT16			kVA	Not present for Galaxy 300 3:1
40310	0x0135	309		Output phase 3 apparent power	1	UINT16			kVA	Not present for Galaxy 300 3:1
40311	0x0136	310		Total Output active power	1	UINT16			kW	
40312	0x0137	311		Total Output apparent power	1	UINT16			kVA	
40313	0x0138	312		Reserved for future use	1	UINT16				
40314	0x0139	313		Total output percent load	1	UINT16			%	
40315	0x013A	314		Output phase 1 peak factor	1	UINT16				Peak factor will be in multiples of 100
40316	0x013B	315		Output phase 2 peak factor	1	UINT16				Peak factor will be in multiples of 100 (Not present for Galaxy 300 3:1)
40317	0x013C	316		Output phase 3 peak factor	1	UINT16				Peak factor will be in multiples of 100 (Not present for Galaxy 300 3:1)
40318	0x013D	317		Output power factor	1	UINT16				Power factor will be in multiples of 100 (0 to 100)
40319	0x013E	318		Mains input frequency	1	UINT16			dHz	Frequency value will be in multiples of 10 Not present for Galaxy 7000 SSC
40320	0x013F	319		Reserved for future use	1	UINT16				
40321	0x0140	320		Bypass input frequency	1	UINT16			dHz	Frequency value will be in multiples of 10 Not present for Galaxy 7000 parallel with SSC
40322	0x0141	321		Output frequency	1	UINT16			dHz	Frequency value will be in multiples of 10
40323	0x0142	322		Output phase 1 power factor	1	UINT16			%	Only on G7000
40324	0x0143	323		Output phase 2 power factor	1	UINT16			%	Only on G7000
40325	0x0144	324		Output phase 3 power factor	1	UINT16			%	Only on G7000
40326	0x0145	325		Reserved for future use	4					
40330	0x0149	329		Battery remaining runtime	1	UINT16			minutes	Not present for Galaxy 7000 SSC
40331	0x014A	330		Battery temperature	1	UINT16			°C	Not present for Galaxy 7000 SSC
40332	0x014B	331		Battery remaining capacity	1	UINT16			%	Not present for Galaxy 7000 SSC
40333	0x014C	332		Reserved for future use	4					Not present for Galaxy 7000 SSC
40337	0x0150	336		Mains input phase 1 to neutral voltage	1	UINT16			Volts	Not present for Galaxy 7000 SSC
40338	0x0151	337		Mains input phase 2 to neutral voltage	1	UINT16			Volts	Not present for Galaxy 7000 SSC
40339	0x0152	338		Mains input phase 3 to neutral voltage	1	UINT16			Volts	Not present for Galaxy 7000 SSC
40340	0x0153	339		Total number of battaries count	1	UINT16				Not present for Galaxy 7000 SSC
40341	0x0154	340		Total battery capacity	1	UINT16			Amp-Hour	Not present for Galaxy 7000 SSC
40342	0x0155	341		Battery temperature in Deg F	1	UINT16			°F	
40343	0x0156	342		UIO sensor port 1 temperature in deg F	1	UINT16			°F	
40344	0x0157	343		UIO sensor port 1 maximum temperature threshold in deg F	1	UINT16			°F	
40345	0x0158	344		UIO sensor port 1 minimum temperature threshold in deg F	1	UINT16			°F	
40346	0x0159	345		Reserved for future use	39					
40385	0x0180	384		UIO sensor port 1 temperature in deg C	1	UINT16			°C	
40386	0x0181	385		UIO sensor port 1 maximum temperature threshold in deg C	1	UINT16			°C	
40387	0x0182	386		Reserved for future use	2					
40389	0x0184	388		UIO sensor port 1 minimum temperature threshold in deg C	1	UINT16			°C	
40390	0x0185	389		Reserved for future use	2					
40392	0x0187	391		UIO sensor port 1 humidity	1	UINT16			%	
40393	0x0188	392		UIO sensor port 1 maximum humidity threshold	1	UINT16			%	
40394	0x0189	393		Reserved for future use	2					
40396	0x018B	395		UIO sensor port 1 minimum humidity threshold	1	UINT16			%	
40397	0x018C	396		Reserved for future use	20					
40417	0x01A0	416		UPS manufacturere name	8	ASCII				
40425	0x01A8	424		UPS product name	8	ASCII				
40433	0x01B0	432		UPS model number	8	ASCII				
40441	0x01B8	440		UPS serial number	8	ASCII				
40449	0x01C0	448		UPS firmware release	15	ASCII				Only on G7000
40522	0x0209	521		Nominal output apparent power	1	UINT16			kVA	
40523	0x020A	522		Reserved for future use	7					
40530	0x0211	529		UPS number in parallel installation	1	UINT16				Only on G7000
40531	0x0212	530		Nominal Battery Backup time	1	UINT16			minutes	Not present for Galaxy 7000 SSC
40532	0x0213	531		Nominal battery voltage	1	UINT16			Volts	Not present for Galaxy 7000 SSC

Global Overview MGE Galaxy 300/ MGE Galaxy 7000


	Modbus Address (word + bit) Hexa format	UPS on Normal AC input	UPS on Battery	Low Battery Warning	End of battery runtime	On Bypass	On Manual Bypass	Comm lost	UPS in ECO Mode	UPS in Power Saving Mode (EBM)
Main UPS status										
Load Powered	400	1	1	1	1	1	1	X	1	1
Load on inverter	401	1	1	1	0	0	0	X	0	1
UPS on battery	404	0	1	1	0	0	0	X	0	0
Load on AC Bypass	407	0	0	0	1	1	0	X	0	0
UPS in maintenance position	461	0	0	0	0	0	1	X	0	0
Battery Charging	493	X	0	0	0	X	X	X	X	X
UPS in ECO mode	41D	0	0	0	0	0	0	X	1	0
UPS in Power Saving Mode (EBM)	41B	0	0	0	0	0	0	X	0	1
Breaker status										
Output switch status (QOP or Q5N)	47B	1	1	1	1	1	0	X	1	1
Main AC switch status (Q1 or QM1)	443	1	1	1	1	1	1	X	1	1
Bypass switch status (QM2 or Q4S)	46E	1	1	1	1	1	1	X	1	1
Battery switch status (QB or QF1)	42F	1	1	1	1	1	1	X	1	1
Maintenance Bypass switch status (Q3BP)	416	0	0	0	0	0	1	X	0	0
UPS Fault										
Internal UPS fault - Red Led on UPS interface	402	0	0	0	1	1	1	X	0	0
Load not protected	41A	0	0	0	1	1	1	X	0	0
UPS Internal Communication Fault	409	0	0	0	0	0	0	1	0	0
Rectifier fault	419	0	0	0	0	0	0	X	0	0
Inverter fault	4C1	0	0	0	0	0	0	X	0	0
Charger fault	490	0	0	0	0	0	0	X	0	0
Battery temperature fault	42A	0	0	0	0	0	0	X	0	0
End of battery runtime	406	0	0	0	1	0	0	X	0	0
Emergency Power Off	40B	0	0	0	0	0	0	X	0	0
Fan Faillure	40E	0	0	0	0	0	0	X	0	0
UPS Warning										
Environment fault - Orange Led on UPS	41C	0	1	1	1	0	0	X	0	0
Overload	40A	0	0	0	0	0	0	X	0	0
Low Battery Warning	405	0	0	1	1	0	0	X	0	0
Inverter Overload	4C2	0	0	0	0	0	0	X	0	0
Static switch overload	465	0	0	0	0	0	0	X	0	0
AC Normal Frequency Out Of Tolerance	44B	0	1	1	1	0	0	X	0	0
AC Normal Voltage Out Of Tolerance	448	0	1	1	1	0	0	X	0	0
AC bypass Out of tolerance	467	0	0	0	0	0	0	X	0	0

Characteristics for UPS in Online operation

Characteristics value for the current UPS operational mode