

**MODBUS TABLE ORGANIZATION**

Starting Address of the Group Registers (Dec)	Starting Address of the Group Registers (Hex)	System Version (Release)	System Version (Build)	Group Name (Text)	Group Code (Hex)	Group Complexity (Hex)	Group Version (Hex)	Object Code
9472	2500	01	16	Alarms	25 00	10	01 00	
0	0	01	16	Modbus Settings	00 01	10	01 00	

**MODBUS PROTOCOL DETAILS**

Function Code (Dec)	Exception Codes (Dec)	Data Encoding
2 (Read Discrete Inputs)	1, 2, 3	"Big Endian" (most significant byte first)
1 (Read Coils)	1, 2, 3	"Big Endian" (most significant byte first)
5/15 (Write Single/Multiple Coils)	1, 2, 3	"Big Endian" (most significant byte first)
4 (Read Input Registers)	1, 2, 3	"Big Endian" (most significant byte first)
3 (Read Holding register)	1, 2, 3	"Big Endian" (most significant byte first)
6/16 (Write Single/Multiple Holding register)	1, 2, 3	"Big Endian" (most significant byte first)

**MODBUS OVER SERIAL DETAILS**

Physical Layer	Trasmission Modes	Device Addressing	Baud Rates (bit/s)	Data Bits	Data bits trasmission sequence	Parity	Stop Bits
standard EIA/TIA 485 (RS-485) two-wire configuration	RTU	1÷247	programmable (1200, 2400, 4800, 9600, 19200, 38400)	8	Least significant bit first	NONE	1

**MASTER/SLAVE COMMUNICATION TIMING**

Timer Description	Timer Value (msec)
Inter-character time-out	< 1,5 character times
Response delay (from master request)	-
Delay Time (between two master trasmissions)	-

REFER ALSO TO: [www.modbus.org](http://www.modbus.org) - MODBUS over serial line specification and implementation guide V1.02  
 - MODBUS APPLICATION PROTOCOL SPECIFICATION V1.1b

NOTE: [File and printed copies of this document are not subject to document change control.](#)



Register Number	Register Address (Dec)	Register Address (Hex)	Dimension [bit]	Description	Read Function Codes (Dec)	Data Storing
<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>Modbus Settings</b>		
1	0	0	1	Remote configuration enabled	2	
2	1	1	1	Automatic setting configuration enabled	2	

NOTE 1= YES,0 = NO



Register Number	Register Address (Dec)	Register Address (Hex)	Dimension [bit]	Description	Note	Read Function Codes (Dec)	Write Function Codes (Dec)	Data Storing
(no COILS availables)								



Register Number	Register Address (Dec)	Register Address (Hex)	Dimension [word]	Bit Position	Description	Type	Scale	Unit	Range	Note	Read Function Code (Dec)	Data Storing
<b>1</b>	<b>0</b>	<b>0</b>	<b>9</b>		<b>Modbus Settings</b>							
1	0	0	1		Modbus Address						4	
2	1	1	1		Baudrate						4	
3	2	2	1		Parity						4	
4	3	3	1		Mode						4	
5	4	4	1		Stop Bit						4	
6	5	5	1		"Point to point" min answer time						4	
7	6	6	1		"Point to point" max answer time						4	
8	7	7	1		"No Answers" Min Waiting Time						4	
9	8	8	1		Point to point min response time						4	
<b>9473</b>	<b>9472</b>	<b>2500</b>	<b>100</b>		<b>Alarms</b>							
9473	9472	2500	5		Alarm 1 (most recent)					(1)	4	
9478	9477	2505	5		Alarm 2					(1)	4	
9483	9482	250A	5		Alarm 3					(1)	4	
9488	9487	250F	5		Alarm 4					(1)	4	
9493	9492	2514	5		Alarm 5					(1)	4	
9498	9497	2519	5		Alarm 6					(1)	4	
9503	9502	251E	5		Alarm 7					(1)	4	
9508	9507	2523	5		Alarm 8					(1)	4	
9513	9512	2528	5		Alarm 9					(1)	4	
9518	9517	252D	5		Alarm 10					(1)	4	
9523	9522	2532	5		Alarm 11					(1)	4	
9528	9527	2537	5		Alarm 12					(1)	4	
9533	9532	253C	5		Alarm 13					(1)	4	
9538	9537	2541	5		Alarm 14					(1)	4	
9543	9542	2546	5		Alarm 15					(1)	4	
9548	9547	254B	5		Alarm 16					(1)	4	
9553	9552	2550	5		Alarm 17					(1)	4	
9558	9557	2555	5		Alarm 18					(1)	4	
9563	9562	255A	5		Alarm 19					(1)	4	
9568	9567	255F	5		Alarm 20 (older)					(1)	4	

(1)  
 WORD4: "year" (MSB) and "month" (LSB)  
 WORD3: "day" (MSB) and "hour" (LSB)  
 WORD2: "minutes" (MSB) e "seconds" (LSB)  
 WORD1: modbus address(MSB), map id (LSB) (1: input bit, 2: coils, 3: input register, 4: holding register, 5: error code)  
 WORD0: register's address or error code

	<b>WORD1 (LSB)</b>	<b>WORD 0 (Error codes)</b>
<b>Nome Allarme</b>	<b>Gruppo allarme</b>	<b>Codice Allarme</b>
Wrong Configuration 1	0x05	0x0001
Wrong Configuration 2	0x05	0x0002
No Communication	0x05	0x0003
Double Functionality	0x05	0x0004
Devices Number exceeded	0x05	0x0005



Register Number	Register Address (Dec)	Register Address (Hex)	Dimension [word]	Bit Position	Description	Type	Scale	Unit	Range	Note	Read Function Codes (Dec)	Write Function Codes (Dec)	Data Storing
(no HOLDING REGISTERS availables)													

