

**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
18688	4900	01	16	Contactor Command	63 01	10	01 00	
18688	4900	01	16	Contactor Command configuration	63 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	Transmission Modes	Device Addressing	Baud Rates (bit/s)	Data Bits	Data bits transmission 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 transmissions)	-

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	Note	Read Function Codes (Dec)	Data Storing
(no DISCRETE INPUTS availables)							

Register Number	Register Address (Dec)	Register Address (Hex)	Dimension [bit]	Description	Note	Read Function Codes (Dec)	Write Function Codes (Dec)	Data Storing
<b>18689</b>	<b>18688</b>	<b>4900</b>	<b>2</b>	<b>Contactor Command</b>				
18689	18688	4900	1	Energize		1	5,15	
18690	18689	4901	1	De-energize		1	5,15	

Register Number	Register Address (Dec)	Register Address (Hex)	Dimension [word]	Bit Position	Description	Type	Scale	Unit	Range	Note	Read Function Code (Dec)	Data Storing
(no INPUT REGISTERS available)												

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
<b>18689</b>	<b>18688</b>	<b>4900</b>	<b>3</b>		<b>Contactor Command configuration</b>								
18689	18688	4900	1		Command configuration		-	-		See Note 3	3	6,16	
18690	18689	4901	1		Activation time (if impulsive)		0,1	sec			3	6,16	
18691	18690	4902	1		Delay on command		0,1	sec			3	6,16	

**Note 3**

bit0:

"0": Normally Open (NO)

"1": Normally Close (NC)

bit1|2:

"00": Impulsive command

"01": toggle command

"10": maintained command

bit3:

"0": Independent outputs

"1": Interlocked outputs

bit4÷15: not used