

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
29696	7400	01	11	Pulse Measure	74 01	30	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 - 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)							



COMMUNICATION PROTOCOL

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)								



COMMUNICATION PROTOCOL

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
29697	29696	7400	12		Pulse Measure								
29697	29696	7400	1		Measure Unit of Pulse Input 1	unsigned integer	1	-		See Note 1	3	6,16	
29698	29697	7401	1		Weight of Pulse Input 1	unsigned integer	1/100	-		Default value = 1000	3	6,16	
29699	29698	7402	2		Counter of Pulse Input 1	unsigned integer	1	-			3	6,16	
29701	29700	7404	1		Measure Unit of Pulse Input 2	unsigned integer	1	-		See Note 1	3	6,16	
29702	29701	7405	1		Weight of Pulse Input 2	unsigned integer	1/100	-		Default value = 1000	3	6,16	
29703	29702	7406	2		Counter of Pulse Input 2	unsigned integer	1	-			3	6,16	
29705	29704	7408	1		Measure Unit of Pulse Input 3	unsigned integer	1	-		See Note 1	3	6,16	
29706	29705	7409	1		Weight of Pulse Input 3	unsigned integer	1/100	-		Default value = 1000	3	6,16	
29707	29706	740A	2		Counter of Pulse Input 3	unsigned integer	1	-			3	6,16	

Note 1
Measurement unit assigned to each pulse input:
 8000 : None
 0 : Wh (**default**)
 1 : kWh
 2 : MWh
 3 : Varh
 4 : kVarh
 5 : MVarh
 6 : VAh
 7 : kVAh
 8 : MVAh
 9 : m3
 10 : km3
 11 : Mm3
 12 : Nm3 (normal meter3)
 13 : kNm3
 14 : MNm3
 15 : J
 16 : kJ
 17 : MJ
 18 : cal
 19 : kcal
 20 : g
 21 : Kg
 23 : T

