

**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)
16384	4000	1	5	State of Breaker	51 02	10	100
20480	5000	1	5	Three-phase Electric Measurement	71 03	20	100
29184	7200	1	5	Three-phase Electric Protection	73 03	10	100
32768	8000	1	5	Single-channel Thermal Measurement	81 00	10	100

**MODBUS PROTOCOL DETAILS**

Function Code (Dec)	Exception Codes (Dec)	Data Encoding
2 (Read Discrete Inputs)	1, 2, 3	"Big Endian" (most significant byte first)
4 (Read Input Registers)	1, 2, 3	

**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 (9600, 38400, 115200)	8	Least significant bit first	no	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