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**I-V-485**

**MODBUS**

**V1.1.0**

# 1. RTU

1.1 RS-485

1.2 1 8 1 9600

1.3 03H

1	2	3	4	5	6	7	8
ADR	03H					CRC	CRC

1 ADR =001~254 2  
 2 03H  
 3 4  
 5 6  
 7 8 1 6 CRC16

1	2	3	4 5	6 7		M-1 M	M+1	M+2
ADR	03H		1	2		M	CRC	CRC

1 ADR =001~254  
 2 03H  
 3 4 M 4 M  
 4 M  
 M+1 M+2 1 M CRC16

# 2.

0 1 4 5

2 3 6 7

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8 9 C D

A B E F

0002~0003 0006~0007 000A~000B

000E~000F

100

0000	uint32 2		0001	uint32 2	
0002	uint32 2		0003	uint32 2	
0004	uint32 2		0005	uint32 2	
0006	uint32 2		0007	uint32 2	
0008	float 2		0009	float 2	
000A	float 2		000B	float 2	
000C	float 2		000D	float 2	
000E	float 2		000F	float 2	

3.





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0x05, 0xC5, 0xC4, 0x04, 0xCC, 0x0C, 0x0D, 0xCD, 0x0F, 0xCF, 0xCE,  
0x0E,0x0A, 0xCA, 0xCB, 0x0B, 0xC9, 0x09, 0x08, 0xC8, 0xD8, 0x18, 0x19,  
0xD9, 0x1B, 0xDB, 0xDA, 0x1A, 0x1E, 0xDE, 0xDF, 0x1F, 0xDD, 0x1D, 0x1C,  
0xDC,0x14, 0xD4, 0xD5, 0x15, 0xD7, 0x17, 0x16, 0xD6, 0xD2, 0x12, 0x13,  
0xD3,0x11, 0xD1, 0xD0, 0x10, 0xF0, 0x30, 0x31, 0xF1, 0x33, 0xF3, 0xF2,  
0x32,0x36, 0xF6, 0xF7, 0x37, 0xF5, 0x35, 0x34, 0xF4, 0x3C, 0xFC, 0xFD,  
0x3D,0xFF, 0x3F, 0x3E, 0xFE, 0xFA, 0x3A, 0x3B, 0xFB, 0x39, 0xF9, 0xF8,  
0x38, 0x28, 0xE8, 0xE9, 0x29, 0xEB, 0x2B, 0x2A, 0xEA, 0xEE, 0x2E, 0x2F,  
0xEF,0x2D, 0xED, 0xEC, 0x2C, 0xE4, 0x24, 0x25, 0xE5, 0x27, 0xE7, 0xE6,  
0x26,0x22, 0xE2, 0xE3, 0x23, 0xE1, 0x21, 0x20, 0xE0, 0xA0, 0x60, 0x61,  
0xA1,0x63, 0xA3, 0xA2, 0x62, 0x66, 0xA6, 0xA7, 0x67, 0xA5, 0x65, 0x64,  
0xA4,0x6C, 0xAC, 0xAD, 0x6D, 0xAF, 0x6F, 0x6E, 0xAE, 0xAA, 0x6A, 0x6B,  
0xAB, 0x69, 0xA9, 0xA8, 0x68, 0x78, 0xB8, 0xB9, 0x79, 0xBB, 0x7B, 0x7A,  
0xBA,0xBE, 0x7E, 0x7F, 0xBF, 0x7D, 0xBD, 0xBC, 0x7C, 0xB4, 0x74, 0x75,  
0xB5,0x77, 0xB7, 0xB6, 0x76, 0x72, 0xB2, 0xB3, 0x73, 0xB1, 0x71, 0x70,  
0xB0,0x50, 0x90, 0x91, 0x51, 0x93, 0x53, 0x52, 0x92, 0x96, 0x56, 0x57,  
0x97,0x55, 0x95, 0x94, 0x54, 0x9C, 0x5C, 0x5D, 0x9D, 0x5F, 0x9F, 0x9E,  
0x5E,0x5A, 0x9A, 0x9B, 0x5B, 0x99, 0x59, 0x58, 0x98, 0x88, 0x48, 0x49,  
0x89,0x4B, 0x8B, 0x8A, 0x4A, 0x4E, 0x8E, 0x8F, 0x4F, 0x8D, 0x4D, 0x4C,  
0x8C,0x44, 0x84, 0x85, 0x45, 0x87, 0x47, 0x46, 0x86, 0x82, 0x42, 0x43,  
0x83,0x41, 0x81, 0x80, 0x40

};

unsigned short CRC16ModBus(unsigned char \* puchMsg, unsigned short  
usDataLen)

```
{  
    unsigned char uchCRCHi = 0xFF;  
    unsigned char uchCRCLo = 0xFF;  
    unsigned char uIndex;  
    unsigned short i = 0;  
    while (usDataLen-- > 0)
```

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```
{
    uIndex = (uint8)(uchCRCHi ^ puchMsg[i++]);
    uchCRCHi = (uint8)(uchCRCLo ^ auchCRCHi[uIndex]);
    uchCRCLo = auchCRCLo[uIndex];
}
return (unsigned short)(( unsigned short)uchCRCHi << 8 | uchCRCLo);
}
```