

CX105 MODBUS protocol

Physical Layer: RS485

Framing: 8,N,1

Baud rate: 9600/14400/19200/38400 programmable (default=9600)

Slave address: programmable (default=1)

Protocol Type: RTU

1. Coils

Commands: 0x01 Read Coil Status, 0x05 Force Single Coil, 0x0F Force Multiple Coils

Bit0 Password Protection (0 OFF, 1 ON)

Bit1 4-20mA Source (0 Conductivity, 1 Temperature)

Bit2 OC Source (0 Conductivity, 1 Temperature)

2. Input Status

Commands: 02 Read Input Status

Bit0 OC Output (0 No output, 1 Have output)

3. Holding Registers

Commands: 03 Read Holding Registers, 0x06 Preset Single Register, 0x16 Preset Multiple Registers

Address	Data Type	Data
40001	Integer	Contrast
40002	Integer	Backlight Brightness
40003	Integer	Filter Time
40004	Integer	OC Setup
40005	Integer	Conductivity Unit
40006	Integer	Temperature Unit
40007, 40008	Float	Cell
40009, 40010	Float	Conductivity 4mA Set Value
40011, 40012	Float	Conductivity 20mA Set Value
40013, 40014	Float	Conductivity Low Alarm Set Point
40015, 40016	Float	Conductivity Low Alarm Hysteresis
40017, 40018	Float	Conductivity High Alarm Set Point
40019, 40020	Float	Conductivity High Alarm Hysteresis
40021, 40022	Float	Conductivity OC Proportional Pulse Start Point
40023, 40024	Float	Conductivity OC Proportional Pulse End Point
40025	Integer	Conductivity OC Proportional Pulse Maximum Value
40026, 40027	Float	Temperature 4mA Set Value
40028, 40029	Float	Temperature 20mA Set Value
40030, 40031	Float	Temperature Low Alarm Set Point
40032, 40033	Float	Temperature Low Alarm Hysteresis
40034, 40035	Float	Temperature High Alarm Set Point
40036, 40037	Float	Temperature High Alarm Hysteresis
40038, 40039	Float	Temperature OC Proportional Pulse Start Point

40040, 40041	Float	Temperature OC Proportional Pulse End Point
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4. Input Registers

Commands: 0x04 Read Input Registers

30001, 30002	Float	Conductivity Reading
30003, 30004	Float	Temperature Reading