

GT200-HT-RS HART/Modbus Serial Gateway

Product Overview

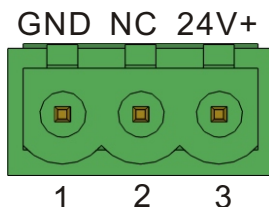
GT200-HT-RS is a gateway that can provide a seamless connection between HART and Modbus. At HART side it can be configured as a primary master or the secondary master, and acts as slave at the Modbus side.

Technical specifications

- [1] Used as a primary master or a secondary HART master;
- [2] Support one HART channel, support connecting at most 13 instruments with gateway internal resistor and support connecting 15 instruments with an external resistor (250Ω);
- [3] HART side support single-point and multi-point mode, under single-point mode, support data burst operation;
- [4] Each HART command can be configured for change-of-state output, polling output, initialization output or disable output;
- [5] Each channel of HART supports up to 128 user commands, the output data buffer area can be up to 1000 bytes, and the input data buffer area up to 1600 bytes;
- [6] Supports serial RS232, RS485 and RS422, baud rate supports: 300, 600, 1200, 2400, 9600, 19.2K, 38.4K, 57.6K, 115.2Kbps;
- [7] Operating temperature: -4 ° F to 140 ° F(-20°C~60°C), relative humidity 5% ~ 95% (non condensing);
- [8] Power: 24VDC (9V~30V), <100mA (24VDC);
- [9] External Dimensions (W*H*D): 0.98in*3.94in*3.54in (25mm* 100mm *90mm);

Power interface

Power interface is shown as below:



Pin	Function
1	Power GND
2	NC(Not Connected)
3	24V+, DC Positive 24V

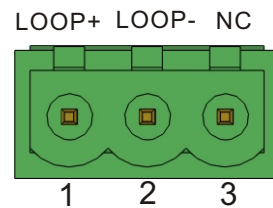


Features

- Powerful Serial function: Support the interconnection between HART and Modbus, also support transparent transmission between HART and serial port;
- Multi debugging functions: It can display the exchanging data, and diagnosis the HART command;
- Provide easy-to-use configuration software SST-HT-CFG.

HART interface

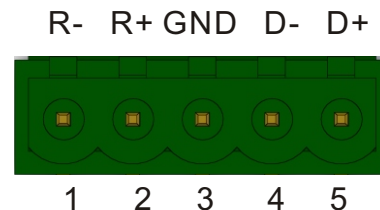
HART interface is shown as below:



Pin	Function
1	HART LOOP+, Connect HART signal negative
2	HART LOOP-, Connect 24V power negative
3	NC, Not Connected

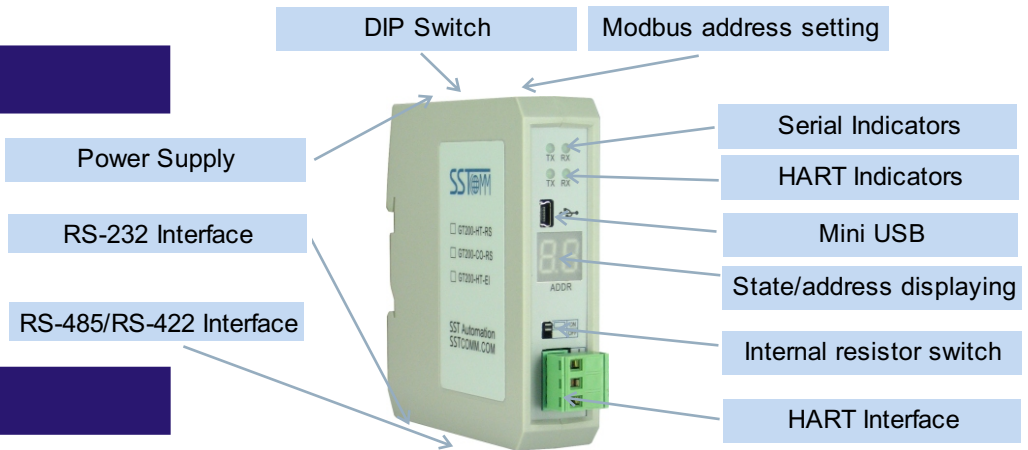
RS-485/RS-422 interface

The RS-485 interface of GT200-HT-RS is a standard one, and the RS-485 characteristics of the product are shown as follows:



Pin	Function
1	R-, RS-422 Receive Negative
2	R+, RS-422 Receive Positive
3	GND
4	D-, RS-485/RS-422 Transmit Negative
5	D+, RS-485/RS-422 Transmit Positive

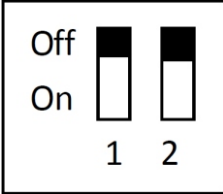
Appearance



Indicators

Indicator location	Indicator	State	State Description
Row 1	TX	Blinking	Serial port data sending
		OFF	No data is sending
	RX	Blinking	Serial port data receiving
		OFF	No data is receiving
Row 2	TX	Blinking	HART Bus data sending
		OFF	No data is sending
	RX	Blinking	HART Bus data receiving
		OFF	No data is receiving

DIP Switch



The DIP switch is located at the bottom of the gateway, bit 1 is debugging bit and bit 2 is configuration bit.

Debugging (bit 1)	Configuration (bit 2)	Description
Off	Off	Run Mode
Off	On	Configuration Mode
On	Off	Debug Mode
On	On	Configuration Mode

Notes:

Restart GT200-HT-RS (power off and power on) after resetting the configuration to make the configuration take effect!