

GT200-3HT-MT 3 channel HART/Modbus TCP Gateway

Product Overview

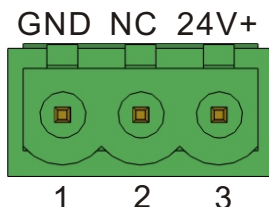
GT200-3HT-MT is a gateway that can achieve data communication between multiple channel HART and Modbus TCP. HART side can be configured as a primary master or the secondary master. GT200-3HT-MT acts as slave at the side of Modbus TCP.

Technical specifications

- [1] HART side can be used as a primary master or the secondary master;
- [2] Support 3 HART channel, support connecting at most 13 instruments with gateway internal resistor (270Ω/2W) and support connecting 15 instruments with an external resistor (250Ω/2W);
- [3] HART side support single-point and multi-point mode, under single-point mode, support data burst operation of HART slave device;
- [4] Support all commands of the HART protocol;
- [5] Each HART command can be configured for change-of-state output, polling output, initialization output or no output;
- [6] Each channel of HART supports up to 100 user commands, the output data buffer area can be up to 2000 bytes, and the input data buffer area up to 3000 bytes;
- [7] Operating temperature: -4 ° F to 140 ° F (-20°C~60°C), relative humidity 5% ~ 95% (no condensing);
- [8] Power: 24VDC (9V~30V), <100mA (24VDC);
- [9] External Dimensions (W*H*D): 1.57in*4.92in*4.33in (40mm* 125mm * 110mm);

Power interface

Power interface is shown as below:



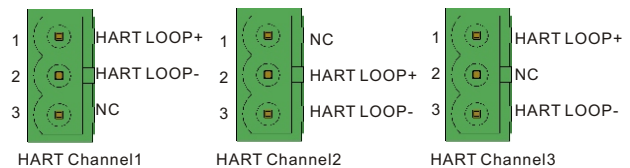
Pin	Function
1	Power GND
2	NC(Not Connected)
3	24V+, DC Positive 24V

Features

- Easy to use: User simply refers to the product manual and application example, configure the gateway according to the requirements then can achieve communication in a short period of time;
- 3 independent HART channels with transformers isolated;
- Ethernet 10/100M adaptive;
- Easy-to-use configuration software SST-HE-CFG.

HART interface

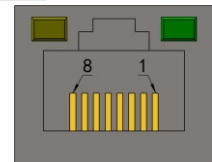
HART interface is shown as below:



Symbol	Function
HARTLOOP+	Connect HART signal positive
HARTLOOP-	Connect HART signal negative
NC	NC

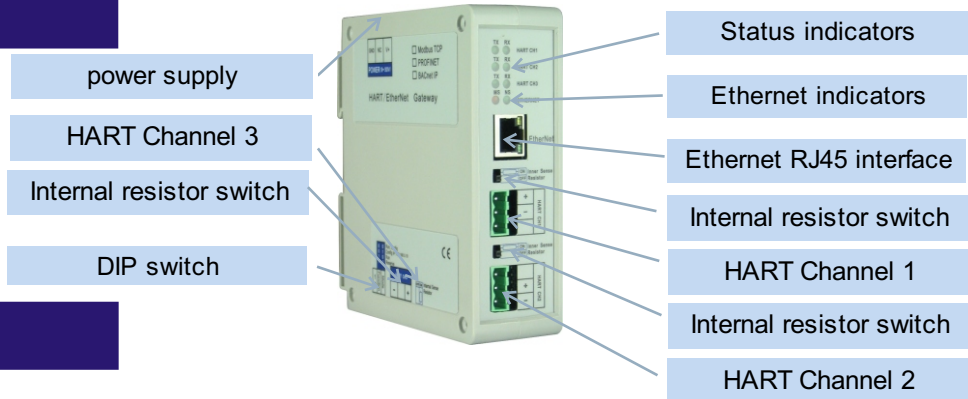
Ethernet interface

Ethernet interface uses RJ-45 connector; its pin (standard Ethernet signal) is defined as below:



Pin	Signal Description
S1	TXD+, Tranceive Data+, Output
S2	TXD-, Tranceive Data-, Output
S3	RXD+, Receive Data+, Input
S4	Bi-directional Data+
S5	Bi-directional Data-
S6	RXD-, Receive Data-, Input
S7	Bi-directional Data+
S8	Bi-directional Data-

Appearance



Indicators

Indicator	State	State description
TX	Blinking	HART channel data is sending
	OFF	No data sending
RX	Blinking	HART channel data is receiving
	OFF	No data receiving
NS	Green LED OFF	No Modbus TCP data is exchanging
	Green LED Blinking	Modbus TCP data is exchanging
MS	Red LED ON	Indicate conflict of IP address
	Red LED Blinking	Connection OFF, configuration status, DHCP, BOOTP, IP address conflict detection with Modbus TCP
	Red LED Blinking(For 3 seconds)	Connection OFF with Modbus TCP

Configuration switch

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



Mode (bit 1)	Function (bit 2)	Description
Off	Off	Run mode, enable read/write the configuration data
Off	On	Run mode, disable read/write the configuration data
On	Off	Configuration mode, IP address is fixed: 192.168.0.10, User can read/write the configuration data
On	On	Reserved

Notes:

Restart GT200-3HT-MT (power off and power on) after resetting the configuration to make the configuration take effect!