

GT200-DP-MT PROFIBUS DP/Modbus TCP Gateway

Product Overview

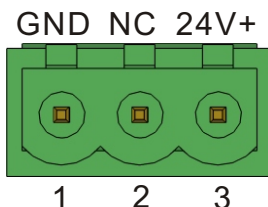
GT200-DP-MT is a gateway which supports Modbus TCP master/slave and PROFIBUS DP slave. It can finish the data exchange between Modbus TCP network and PROFIBUS DP network. Also, it supports the interconnection between Schneider PLC and Siemens PLC and connecting the Modbus TCP slave devices to the PROFIBUS DP network.

Technical specifications

- [1] Support PROFIBUS DP V0 protocol;
- [2] Acts as PROFIBUS DP slave, baud rate adaptive (9600bit/s~12Mbit/s);
- [3] Modbus TCP can work as Master (Client) or Slave (Server);
- [4] Acts as Modbus TCP client, supports up to 36 Modbus TCP servers with different Ips or different unit Ids, function code: 01H, 02H, 03H, 04H, 05H, 06H, 0Fh and 10H;
- [5] Acts as Modbus TCP server, supports up to 36 Modbus TCP clients connections, function code: 03H, 04H, 06H and 10H;
- [6] Supports maximum 244bytes input buffer and 244bytes output buffer;

Power interface

Power interface is shown as below:



Pin	Function
1	GND
2	NC, not connected
3	24V+ , DC 24V

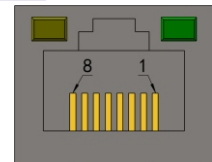
Features

- Modbus TCP master or slave optional, PROFIBUS DP slave;
- Ethernet 10/100M adaptive;
- IP address conflict detection;
- Support DHCP, BOOTP and static setting;
- Support I/O data monitor function;
- Provide easy-to-use configuration software SST-EP-CFG.

- [7] 1KV galvanic isolated on PROFIBUS DP interface;
- [8] Power supply 24VDC (11V to 30V), 160mA (24VDC);
- [9] Operating temperature: -4 ° F to 140 ° F, relative humidity 5% ~ 95% (no condensing);
- [10] External Dimensions (W*H*D): 1.57in*4.92in*4.33in (40mm* 125mm * 110mm);
- [11] Installation: 35mm DIN rail;
- [12] Protection level: Ip20.

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

Indicators	Status	Descriptions
STA(green)	blink	PROFIBUS DP bus data is communicating
	Off	No data communicating
PBF (red)	On	PROFIBUS DP bus data communication fails
	Off	Communication is ok
MS	Blink (red)	DHCP or BOOTP status
	On (red)	IP confliction
	OFF(red)	Normal communication
NS	On(green)	Modbus TCP connection has been established
	Flash(green)	Modbus TCP connection is not established or disconnected
	OFF(green)	Modbus TCP is not started
MS, NS, and STA flashes once		Boot up
MS and NS ON		Configuration status

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, allow reading and writing configuration data
Off	On	Run mode, forbid reading and writing configuration data
On	Off or On	Configuration mode, IP address is 192.168.0.10 (fixed), this mode can read and write configuration data but cannot finish communication between Modbus TCP and PROFIBUS DP

Notes:

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