

GT200-DPM-DN DeviceNet/PROFIBUS DP Gateway

Product Overview

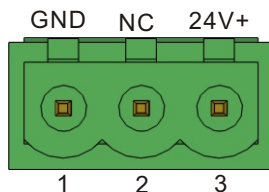
The gateway GT200-DPM-DN can connect DeviceNet Master with PROFIBUS DP Slave, and establish the communication between them. It supports multiple PROFIBUS slave devices to connect to the DeviceNet network. It acts as a master at the side of PROFIBUS DP and a slave at the side of DeviceNet.

Technical Specifications

- [1] PROFIBUS DP/V0 communication capability, in accordance with EN50170 ;
- [2] 2.5KV photoelectric isolation on PROFIBUS DP interface and DeviceNet interface;
- [3] Acts as only server at the side of DeviceNet, and support Poll I/O;
- [4] The DeviceNet port supports input bytes 48, 96, 128, 160, 200 and 240 and output bytes 32, 68, 128, 160, 200 and 240;
- [5] DeviceNet baud rate: 125K, 250K, 500K, baud rate adaptive;
- [6] A plurality of LED status lights indication, easy on-site debugging;
- [7] Gateway gets power from DeviceNet, power voltage is DC11~26V, consumption: <4W;
- [8] Temperature: operating -4°F~140°F (-20℃ ~ 60℃) ; Humidity: 5 to 95% (No Condensing);
- [9] External dimensions (W*H*D): 1.57 in*4.92 in *4.33 in (40mm*125mm*110mm);
- [10] Installation: 35mm rail;
- [11] Protection Level: IP20;

Power interface

Power interface is shown as below:



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

Features

- Wide application: establish stable connection between PROFIBUS DP network and DeviceNet network;
- Easy to use: no need to know the detailed technology of PROFIBUS DP and DeviceNet, users just refer to this manual and application examples, finish network configuration and make it work in short time;
- Transparent Communication: users can refer to the mapping relations between PROFIBUS communication data area and DeviceNet data area, then establish transparent transmission between them.

PROFIBUS DP interface

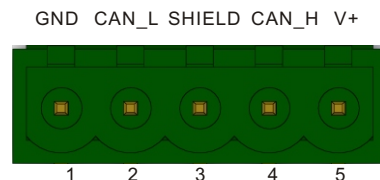
PROFIBUS DP interface uses DB9 connector, and the pins are defined as follows:



Pin	Function
3	PROFI_B, Data positive
5	GND (optional)
8	PROFI_A, Data negative

DeviceNet interface

DeviceNet side is the open five-pin connector, as shown below:



Pin	Wiring
1	GND(24V)
2	CAN_L
3	shielding
4	CAN_H
5	+24V

Appearance



Indicators

PROFIBUS DP network status lights (COM, SYS)

Indicator state	Description
COM Always Green	GT200-DPM-DN gets DP master token and sends DP packet, communication is normal
COM Green blinking irregularly	GT200-DPM-DN and the other DP master on the network share a token
COM Always Red	At least one DP slave and GT200-DPM-DN communication abnormal or network short-circuit
COM Off	GT200-DPM-DN with no DP configuration or had not got token from the DP network
SYS Red light flashes in 1 Hz	GT200-DPM-DN is in the bootloader process
SYS Red light flashes in 5 Hz	Detected hardware problems
SYS Red blinking irregularly	GT200-DPM-DN DP master card is updating firmware
SYS Always Green	DP communication is normal, GT200-DPM-DN established connection with at least one DP slave
SYS Green blinking with 5 Hz	DP configuration is properly configured, the communication stops or not connected to the master
SYS Green Blinking irregularly	Lost configuration or error after power-on
SYS Off	GT200-DPM-DN power-off or hardware problem

The RS-232 port LED SE (TX, RX)

Indicator state	Description
TX Off	Serial port is not transmitting data
TX Red blinking	Serial port is transmitting data
RX Off	Serial port is not receiving data
RX Green blinking	Serial port is receiving data

LED Display

The main contents include: LED display DeviceNet address during normal operation, dynamic display the DeviceNet address the high, low and DeviceNet baud rate during configuration.

"12" "25" means DeviceNet baud rate is 125K; "25" "50" means DeviceNet baud rate is 250K; "AU" "Uo" means DeviceNet baud rate is automatic baud rate status.

Configuration Button

Configuration button on the front panel can be used to set the address of the PROFIBUS DP slave. Now, we have three operation ways to provide users. That is address setting mode, configuration mode and debug mode. Please refer to the user manual for detailed information.