

GT200-DP-DN DeviceNet/PROFIBUS DP Gateway

Product Overview

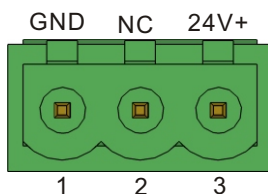
The gateway GT200-DP-DN can connect DeviceNet Master with PROFIBUS DP Master, and establish the communication between them. It supports PROFIBUS master device to connect to the DeviceNet network.

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] Up to 224 bytes input and 224 bytes output, user can also select 32, 96, 48, 112, 72, 160, 192 bytes;
- [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] Act as a slave at the side of DeviceNet, and support Poll I/O;
- [6] DeviceNet baud rate: 125K, 250K, 500K, baud rate adaptive;
- [7] Supply many LED status lights indicating network status;
- [8] Gateway gets power from DeviceNet, power voltage is DC11~26V, consumption: <4W;
- [9] Temperature: operating -40°F~140°F (-40°C ~ 60°C) ; Humidity: 5 to 95% (No Condensing);
- [10] External dimensions (W*H*D): 1.57 in*4.92 in *4.33 in (40mm*125mm*110mm);
- [11] Installation: 35mm DIN rail;
- [12] 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

- Achieve the direct connection between DeviceNet network and PROFIBUS DP network. Such as: Establish the communication between Rockwell, Omron PLC and Siemens S7 PLC.
- Easy to use: Referring to the manual and the examples provided, users can establish the connection quickly.
- 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

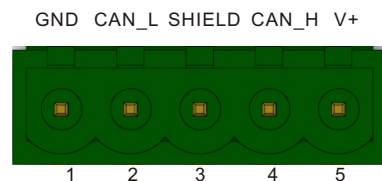
PROFIBUS DP interface uses DB9 connector, and the pins are defined as follows:



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

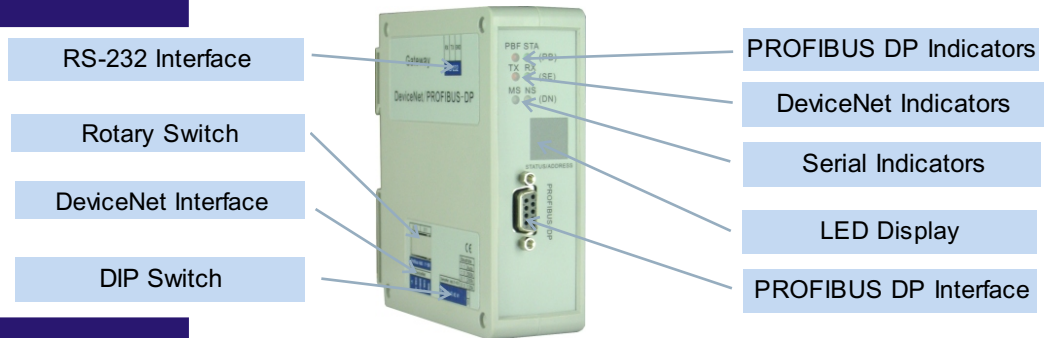
DeviceNet interface

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

DeviceNet Module Status Indicator(MS)

Status	Description
Off	No power supply or indicator may be bad
Always Green	Work properly
Green Blinking	Incorrect configuration, or in baud rate interception status
Red Blinking	Recoverable fault
Always Red	Unrecoverable fault
Red-Green Blinking	Self-testing

DeviceNet Network Status Indicator(NS)

Status	Description
Off	DeviceNet without power
Green Blinking	Device is online, but no connection
Always Green	Device is online and there is a connection
Red Blinking	One or more connection timeout
Always Red	Device detects an unrecoverable fault, and cannot communicate, For example, DeviceNet address repeat

RS-232 Interface Indicator(SE)

Status	Description
TX Off	Serial has no data sent
TX Red Blinking	Serial is sending data
RX Off	Serial has no data received
RX Green Blinking	Serial is receiving data

PROFIBUS DP Network Status Indicator(PB)

Status	Description
PBF Off	Communication is OK
PBF Always Red	PROFIBUS DP communication fails
STA Off	PROFIBUS DP is not communicating
STA Green Blinking	PROFIBUS DP is communicating

LED Display

The main contents of LED include: DeviceNet address and PROFIBUS DP address. After powering on, LED successively display "pb", the current PROFIBUS DP address, "dn" and the current DeviceNet address.

Configuration Button

The rotary switch on the left panel can be used to set the address of the PROFIBUS DP. DIP switch is used to set baud rate and address of DeviceNet. For detailed configuration, please refer to the user manual.