Product Overview

The gateway GT200-DP-DM provides a seamless connection between DeviceNet network and PROFIBUS DP network, exchanges data between DeviceNet adapter and a PROFIBUS DP master.

Features and Benefits

● Wide Application:

Connect the DeviceNet device network to PROFIBUS DP bus. For example: frequency converter with DeviceNet interface, motor start protection device, intelligent high and low voltage appliances, intelligent field measurement equipment and PLC and so on.

● Easy to Use:

Referring to the manual and the examples provided, users can establish the connection quickly.

● Transparent Communication:

Users can accord to the mapping relationship between PROFIBUS DP communication data area and DeviceNet communication data area to achieve the transparent communication between PROFIBUS DP and DeviceNet.
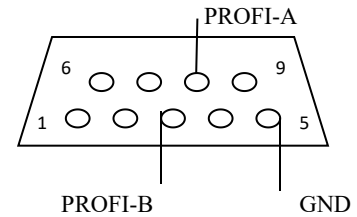
PROFIBUS DP Interface

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

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

DeviceNet Interface

DeviceNet and power terminal, as shown below:

GND CAN_L SHIELD CAN_H V+

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

DIP Switch

	DIP Switch 1 ON	DIP Switch 1 OFF	DIP Switch 2 ON	DIP Switch 2 OFF
Mode	Pre-operation mode	Operation mode		
LED display	DeviceNet address		DeviceNet address.	DP address

Note: DIP Switch 2 only used in operation mode, the switch is reserved in Pre-operation mode.
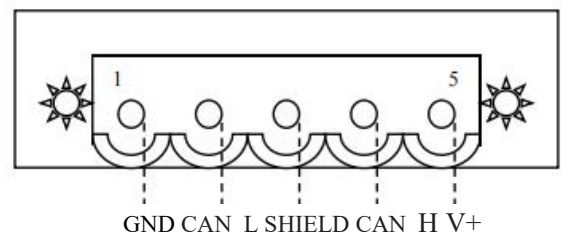
SSTⒶMM

DIP Switch

Indicators

USB

LED Display

PROFIBUS DP Interface

DeviceNet Interface

Technical Specifications

[1] Acts as a PROFIBUS DP slave device and able to connect with the PROFIBUS DP controller, such as Siemens PLC. Baud rate is self-adaptive, maximum baud rate is 6Mbps.

[2] 2.5KV galvanic isolated on PROFIBUS DP and DeviceNet interfaces.

[3] Acts as scanner on DeviceNet network and supports DeviceNet I/O polling.

[4] DeviceNet baud rate: 125K, 250K, 500K bps.

[5] PROFIBUS DP: Max Input: 244 bytes, Max Output: 244 bytes.

[6] Power Supply: 24VDC (11V-26VDC). The power supply and the DeviceNet network are wired on the same five-pin terminal.

[7] Operating temperature:-4ºF to 140ºF (-20ºC to 60ºC). Humidity: 5%-95% (non-condensing).

[8] Dimensions (W*H*D):1.0in*4.0in*3.6in (25 mm*100 mm*90 mm).

[9] Installation: 35mm DIN RAIL.

Indicators

Pre-operation mode

MS	NS	Description	Comments
Green Blinking	Off	Waiting for search	Just power-on state.
Always Green	Always Green	Established connection	Master-slave station communication
Green Blinking	Always Orange	Disconnect	Master and slave stations disconnect.

Note: in Pre-operation mode, the PBF indicator is always red, the STA indicator is off, and the LED address indicator shows the DeviceNet address.

Operation mode

MS	NS	Description	Comments
Always Green	Always Green	Communication is normal.	
Always Green	Always Red	Error in CAN port.	Example: Baud rate error of CAN port.

Indicators	State	Description
PBF	Always Red	PROFIBUS DP communication failed.
	OFF	Communication is normal.
STA	Green Blinking	Transferring data in PROFIBUS Network.
	OFF	No data is transferred in PROFIBUS DP network.