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.

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.

Button

The button is used to set the DeviceNet address and DeviceNet baud rate.For detailed instructions, please refer to the GT200-DPM-DN manual.
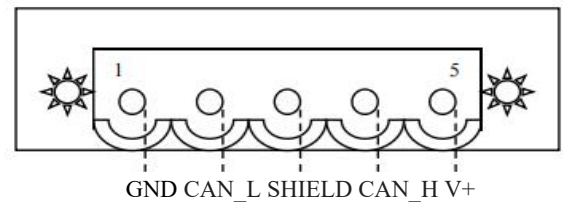
PROFIBUS DP Interface

PROFIBUS DP interface uses DB9 connector, and the pins are defined as follows:
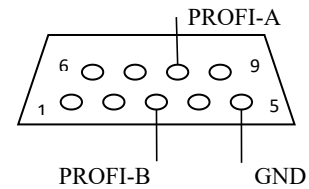
Pin	Description
3	PROFI_B, Data positive
5	GND (optional)
8	PROFI_A, Data negative

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+

RS232 Interface
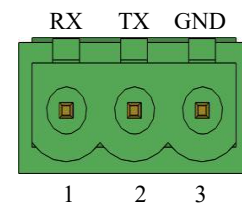
Pin	Description
1	RX, connect with TX of user device
2	TX, connect with RX of user device
3	GND

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RS232 Interface

Button

PROFIBUS DP Interface

DeviceNet Interface

PROFIBUS DP Indicators

DeviceNet Indicators

Serial Indicators

LED Display
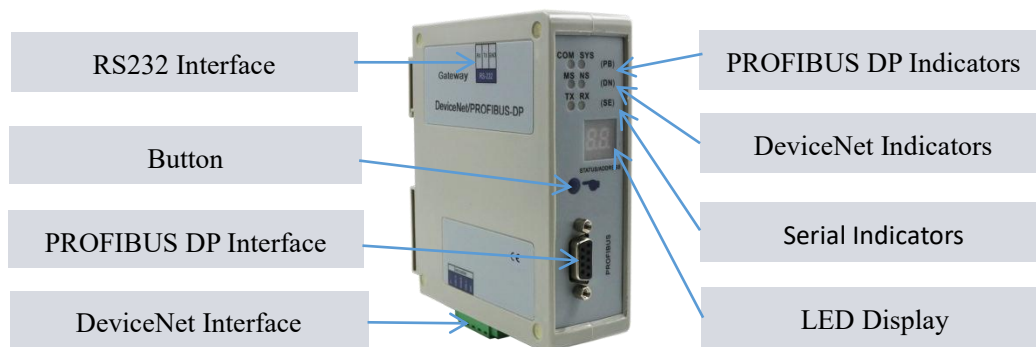
Technical Specifications

[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 supports DeviceNet I/O polling.

[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 bps, baud rate adaptive.

[6] Power supply: 24VDC (11~26VDC), consumption: <4W.

[7] Working temperature: -4°F~140°F (-20°C~60°C). Humidity: 5% ~ 95% (non-condensing).

[8] External Dimensions (W*H*D): 1.6in*5.0 in*4.4in (40 mm*125 mm*110 mm).

[9] Installation: 1.4 in (35 mm) DIN RAIL.

[10] Protection class: IP20.

Indicators

Status	PROFIBUSDP network status lights (COM, SYS) 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 boot loader 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.

Status	The RS232 port LED SE (TX, RX) 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.

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