GT200-DP-DN

DeviceNet (Adapter)/PROFIBUS DP Gateway

Product Overview

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

LED Display

The main contents of LED include: DeviceNet address and PROFIBUS DP address. After power-on, The LED digital tube displays "pb", current PROFIBUS DP address, "dn" and current DeviceNet address successively.
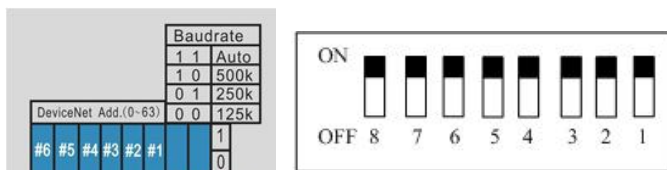
Switch

● Rotary Switch:
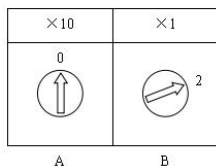
PROFIBUS DP address is calculated as:

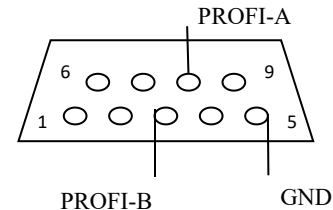PROFIBUS DP Address=$(A\times10)+(B\times1)$

● DIP Switch:

a) 1-2 bits: DeviceNet baud rate.

00 (125K), 01 (250K), 10 (500K),11 (self-adaptive).

b) 3-8 bits: DeviceNet address.

They correspond with DeviceNet address #1bit - # 6bit.

They use binary coding (ON is 1, OFF is 0).
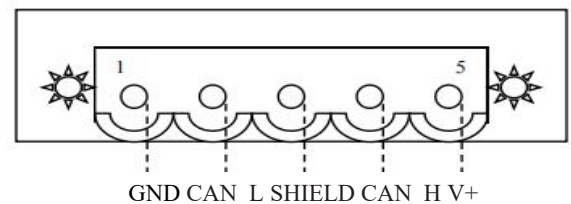
PROFIBUD DP Interface

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

RX   TX   GND

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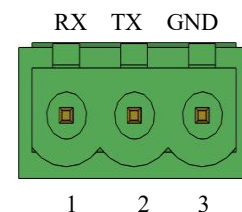
Pin	Description
1	RX, connect with TX of user device
2	TX, connect with RX of user device
3	GND

RS232 Interface	PROFIBUS DP Indicators
Rotary Switch	DeviceNet Indicators
DeviceNet Interface	Serial Indications
	LED Display
DIP Switch	PROFIBUS DP Interface

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] The DeviceNet supports Up to 224 bytes input and 224 bytes output, user can also select 32, 96, 48, 112, 72, 160, 192 bytes.

[4] Act as a slave at the side of DeviceNet, and supports DeviceNet I/O polling.

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

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

[7] Working temperature: -40°F~140°F (-40°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

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.

RS232 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.

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.

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.