SST Automation
Industrial Communication

GT200-DP-CA
PROFIBUS DP/CAN Gateway

Product Overview

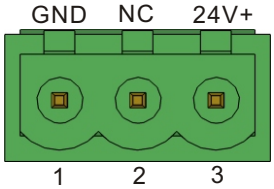
The gateway supports connecting the devices with CAN (including CAN2.0A and CAN2.0B) to PROFIBUS DP bus, that is to say CAN bus network devices can be converted to PROFIBUS DP bus network devices. PROFIBUS DP interface of GT200-DP-CA is slave. It supports using bit 8 of DIP switch to decide that the mode of GT200-DP-CA is 15-byte mode or 16-byte mode.

Technical Specifications

[1] Communication baud rate:
CAN baud rate: 1M, 500K, 250K, 125K, 100K, 62.5K, 31.25K, 20K, 10K;
PROFIBUS DP baud rate is self-adaptive and can be up to 12Mbps;
[2] Module provides PROFIBUS DP slave interface with 2.5KV photoelectric isolation and CAN interface;
[3] Two types of input/output bytes number at the side of PROFIBUS are optional: 16 bytes input/output, 15 bytes input/output;
[4] GT200-DP-CA can buffer at most 200 CAN frame numbers;
[5] Power: 24VDC (9V-30V);
[6] Working circumstance temperature: -40℉~140℉(-40℃~60℃), Humidity: 5%~95% (non-condensing);
[7] External dimensions (W*H*D): 1.57 in*4.92 in*4.33 in (40mm*125mm*110mm);
[8] Installation: 35mm DIN RAIL;
[9] Protection Level:IP20;

Power interface

Power interface is shown as below:



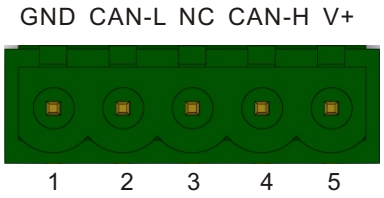
Pin	Function
1	Power GND
2	NC(Not Connected)
3	24V+, DC Positive 24V

Features

- Wide application: Support connecting the devices with CAN bus interface to PROFIBUS DP bus;
- Easy to use: Complete network communication through simple operations in a short time;
- Powerful function: Support connecting with multiple CAN devices, support CAN2.0A/2.0B, and support the two modes working together;
- User can easily realize single read/write and periodically visit of CAN devices;
- Support receive confirm function, more complete and reliable data transmission.

CAN interface

CAN interface of GT200-DP-CA uses 5-pin connector:



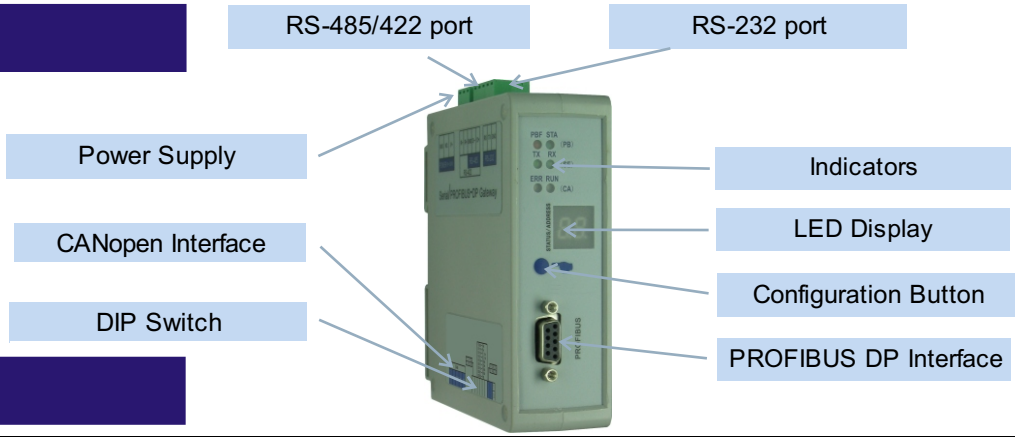
Note: In this gateway, V+ and shield (NC) can be wired or not be wired, but GND, CAN_L and CAN_H must be wired.Voltage between V+ and GND is 24V;

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

Appearance

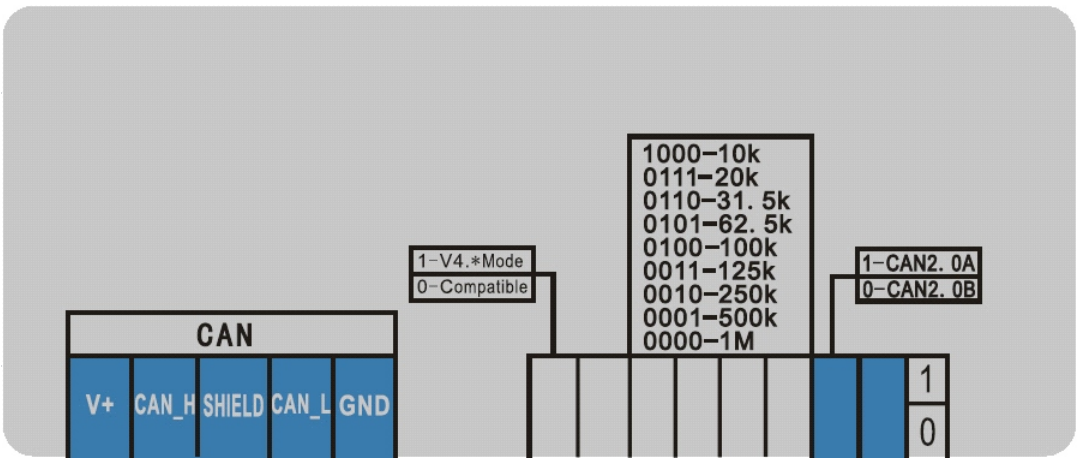


Indicators

Indicator	Status	Description
PBF	Red on	PROFIBUS DP no connection or fails
	Red off	PROFIBUS DP port communicates normally
STA	Green on or off	No data transmission in PROFIBUS DP
	Green blinking	PROFIBUS DP data transmission
ERR	Red on	The gateway is in the CAN network offline status
	Red blinking	CAN network communication is not well or the gateway is in the CAN passive error status
	Green on	CAN communicates normally
RUN	Green blinking	CAN port data sending or receiving
	Green on or off	No data sending or receiving in CAN port
TX	Green blinking	Serial port data sending
	Green off	No data is sending
RX	Green blinking	Serial port data receiving
	Green off	No data is receiving

DIP Switch

Use DIP switch to configure the input/output bytes, type of CAN frame, CAN baud rate.



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