SST Automation
Industrial Communication

GT200-DN-RS
Modbus/DeviceNet Gateway

Product Overview

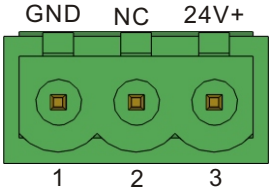
The gateway GT200-DN-RS can connect multiple devices with Modbus (RS-485/RS-232) interface to DeviceNet network. It acts as a master at the side of Modbus network, and a slave at the side of DeviceNet network. GT200-DN-RS works through the data mapping between networks, mapping Modbus parameters to DeviceNet I/O data.

Technical Specifications

[1] Communication rate:
DeviceNet interface supports: 125kbit/s, 250kbit/s, and 500kbit/s;
The default parameters of Modbus interface are 19200bps, 8 bits, no parity, 1 stop bit;
The Modbus baud rate: 300, 600, 1200, 2400, 9600, 19200, 38400, 57600, 115200bps;
[2] Working mode: DeviceNet interface only support: Group 2 Only Slave;
[3] Act as a slave at the side of DeviceNet, and support Poll I/O;
[4] DeviceNet baud rate: 125K, 250K, 500K, baud rate adaptive;
[5] Gateway gets power from DeviceNet, power voltage is 24VDC (11~30V), consumption: <2W@24V;
[6] Temperature: operating -4℉~140℉ (-20℃ ~ 60 ℃); Humidity: 5 to 95% (No Condensing);
[7] External dimensions (W*H*D): 1.57 in*4.92 in *4.33 in (40mm*125mm*110mm);
[8] Installation: 35mm rail;
[9] Protection Level: IP20;

Power interface

Power interface is shown as below:

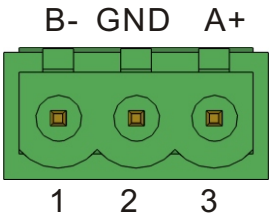


Pin	Function
1	Power GND
2	NC(Not Connected)
3	24V+, DC Positive 24V

Features

- Support all the baudrate which accords with the DeviceNet protocol, and support sensing baud rate automatically function;
- Acts as a Modbus master, and support the 1, 2, 3, 4, 5, 6, 15, 16 function codes;
- The range of input-voltage is 11~30V, and the standard working voltage is 24VDC;
- Free configuration software SST-MD-CFG;
- Support the debugging without PLC.

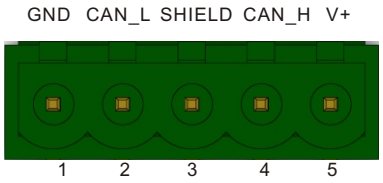
RS-485 interface



Pin	Function
1	B-, RS-485
2	GND
3	A+, RS-485

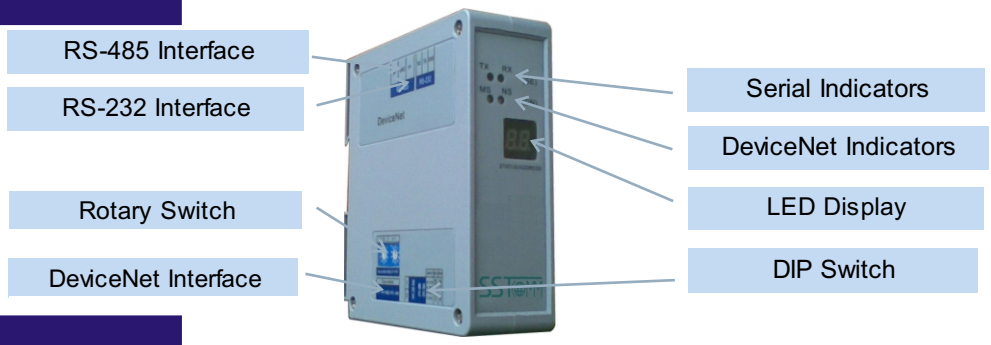
DeviceNet interface

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

Module Status Indicators (MS)

Indicators	Description
Off	No power supply or broken indicators
Always Green	Work normally
Green blinking	Not correctly configured
Red blinking	Recoverable faults, Modbus communication faults (such as not find the slave station)
Always Red	Unrecoverable faults

DeviceNet Network Status Indicator(NS)

Indicators	Description
Off	The repetitive MAC ID detection is not successful or no power supply
Green blinking	The devices are online but there are not connections established
Always Green	The devices are online and there are connections established
Red blinking	One or more I/O connections have been timeout
Always Red	The device detects unrecoverable faults and cannot communicate, such as there is repetitive DeviceNet address on net.

Serial Interface Status Indicators (TX, RX)

Indicators	Status	Description
RX (Green)	Blinking	Serial port is receiving data
	Off	Serial port is not receiving data
TX (Red)	Blinking	Serial port is sending data
	Off	Serial port is not sending data

LED Display

The main contents of LED include: current baud rate (only show at startup), current DeviceNet address (show at running).

DIP Switch

The DIP switch has three functions. That is modify DeviceNet baud rate, set working mode and set debugging mode. For detailed configuration, please refer to the user manual.

Notes:

Restart GT200-DN-RS (power off and power on) after resetting the DIP switch to make the configuration take effect!

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