IC-232 Converter Operation Manual (Thunder Protection)

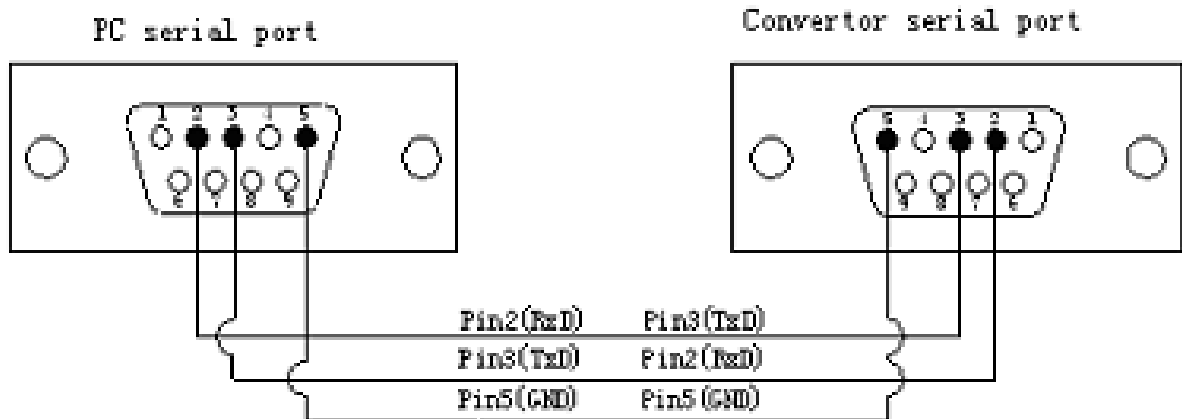**IC-232**

System Features

1. IC-232 is converts the RS485 data format to RS232. It is essential for exchanging data between the PC and the controllers.
2. The IC-232 is powered up through a USB port, for easy connection.
3. 1 set of IC-232 can be used to support 32 -128 controllers networked at the same time.

Note: Do not use the same source of power supply for the IC-232 and the electrical door lock to avoid electrical sparkle interference.

Technical Specifications

- Speed: 0-115200bps
- Transmitting range: 1200m.
- Support 1 to 127 nodes.
- Power: 7-12AC/DC
- Operating Current: 200mA
- Operating temperature: -40℃ ~ +70℃.
- Humidity: 5%~95%
- Size: 63mm x 93mm x 20mm
- 3 LEDs to display the status.
- Thunder Protection.

Pin definitions

Switch setting and baud rate regulation

A) DIP 1-3: the switches 1, 2, 3 are used to set the baud rate. The baud rate is set based on the controller that is connected to the converter IC-232. TC3XY controllers supports 9,600 bps only.

Baud rate（bps）	DIP 1	DIP 2	DIP 3	Baud rate（bps）	DIP 1	DIP 2	DIP 3
300	OFF	OFF	OFF	4800	OFF	OFF	ON
600	ON	OFF	OFF	9600	ON	OFF	ON
1200	OFF	ON	OFF	19200	OFF	ON	ON
2400	ON	ON	OFF	38400	ON	ON	ON

B) DIP 4: It is used to set data bit when transmitting.

Switch	State	Function description:
DIP 4	OFF	Standard 11 bits transmitting mode (8,1,1,n modes)
	ON	Auto-checking data bits.

For TC3XY controllers the default is DIP1=ON, DIP2=OFF, DIP3=ON, DIP4=ON.

Connection method

RS-485 connection:

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