

Communication description

RS232 communication

The BMS can communicate with the host computer through the RS232 interface, so that various information of the battery can be monitored through the host computer, including battery voltage, current, temperature, status and battery production information, etc. The default baud rate is 9600bps.

CAN communication

CAN communication, the default communication rate is 500K.

RS485 communication

With dual RS485 interfaces, you can view PACK information, and the default baud rate is 9600bps. If you need to communicate with the monitoring device via RS485, the monitoring device is used as the host to poll the data according to the address. The address setting range is 2-15.

DIP switch settings

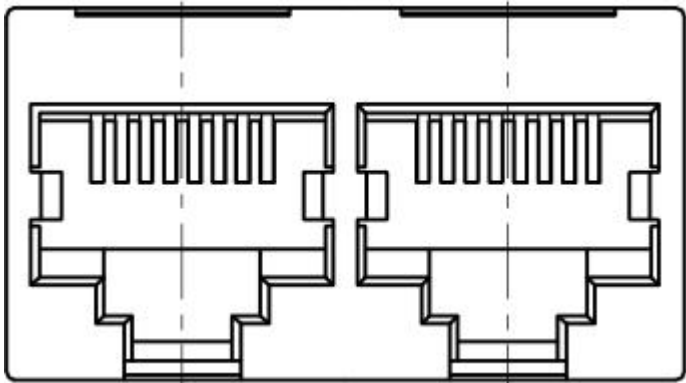
When PACKs are used in parallel, different PACKs can be distinguished by setting the address of the DIP switch on the BMS. Avoid setting the address to the same. Refer to the table below for the definition of the BMS DIP switch.



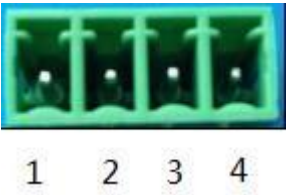
Address	DIP switch position			
	#1	#2	#3	#4
0	OFF	OFF	OFF	OFF
1	ON	OFF	OFF	OFF
2	OFF	ON	OFF	OFF
3	ON	ON	OFF	OFF
4	OFF	OFF	ON	OFF
5	ON	OFF	ON	OFF
6	OFF	ON	ON	OFF
7	ON	ON	ON	OFF
8	OFF	OFF	OFF	ON
9	ON	OFF	OFF	ON
10	OFF	ON	OFF	ON
11	ON	ON	OFF	ON
12	OFF	OFF	ON	ON
13	ON	OFF	ON	ON
14	OFF	ON	ON	ON
15	ON	ON	ON	ON

Interface definition

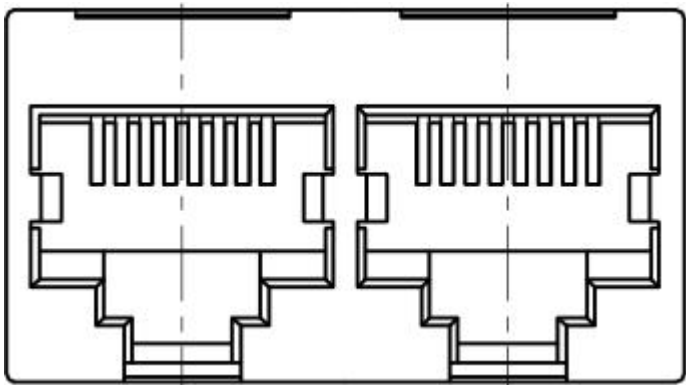
Interface icon



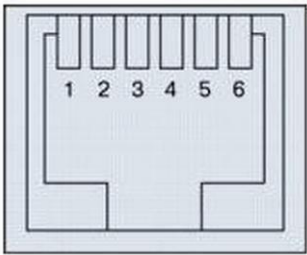
CAN 和RS485



Dry contact



Parallel communication port



RS232 Communicatio port

Electrical interface definition

RS232--Using 6P6C vertical RJ11 socket		
RJ11 pin	Definition description	

2	NC
3	TX (single board)
4	RX (single board)
5	GND

RS485--Using 8P8C vertical RJ45 socket		RS485--Using 8P8C vertical RJ45 socket	
RJ45 pin	Definition description	RJ45 pin	Definition description
1、8	RS485-B1	9、10、11、14、16	NC
2、7	RS485-A1	12	CANL
3、6	GND	13	CANH
4、5	NC	15	GND

CAN & RS485 interface

RS485--Using 8P8C vertical RJ45 socket		RS485--Using 8P8C vertical RJ45 socket	
RJ45 pin	Definition description	RJ45 pin	Definition description
1、8	RS485-B	9、16	RS485-B
2、7	RS485-A	10、15	RS485-A
3、6	GND	11、14	GND
4、5	NC	12、13	NC

Parallel communication port

Port	Description
B+	The positive pole of the battery PACK is used to supply power to the BMS; the power positive P+ is directly connected to the positive pole of the battery

B-	Battery PACK negative pole;			
P-	The negative electrode of the battery PACK, which is both the negative electrode for charging and the negative electrode for discharging (the same port for charging and discharging)			
Cell temperature	J2-1	NTC1	J4-1	NTC2
	J2-2	NTC	J4-2	NTC
	J2-3	CELL1-	J4-3	CELL5+
	J2-4	CELL1+	J4-4	CELL6+
	J2-5	CELL2+	J4-5	CELL7+
	J2-6	CELL3+	J4-6	CELL8+
	J2-7	CELL4+		
	J5-1	NTC3	J6-1	NTC4
	J5-2	NTC	J6-2	NTC
	J5-3	NC	J6-3	CELL13 +
	J5-4	CELL9+	J6-4	CELL14 +
	J5-5	CELL10 +	J6-5	CELL15 +
	J5-6	CELL11 +	J6-6	CELL16 +
	J5-7	CELL12 +		

