

**Overview:** This file defines the RS232C communication protocol of intelligent inverter.

- A. Hardware: Baud rate: 9600bps; Data length: 8 bits; Stop bits: 1 bit; Parity check: no Cable Connection:

Computer	Inverter Power
RX ←	TX (2 feet)
TX →	RX (3 feet)
GND ←	GND (5 feet)

(9 feet D coupling female head)

- B. Communication Protocol:

1. Telemetry information

Computer Sending:

COD	LEN	SUMCHK
0x01	0x01A	Sum

Inverter Receivin:

COD	LEN	DATA	SUMCHK
0x01	0x01A	Table Below	Sum

Telemetry Information Data:

Data Bytes	Contents	Format	Unit (V)
01 - 02	Output Voltage	H-L	0.1
03 - 04	Output Load Percentage	H-L	1.0
05 - 04	Output Frequency	H-L	1.0
07 - 08	Input Voltage	H-L	0.1
09 - 10	Battery Voltage	H-L	0.1

## 2. Remote Information

Computer Sending:

COD	LEN	SUMCHK
0x02	0x02	Sum

Inverter Receiving:

COD	LEN	DATA	SUMCHK
0x02	0x02	Table Below	Sum

Remote Information Data:

Data Bytes	Bit	Contents		
01 Byte	BIT0	Communication Failure	(0- Normal 1- Failure)	
	BIT1	Battery Low Voltage	(0- Normal 1- Failure)	
	BIT2	Inverter Failure	(0- Normal 1- Failure)	
	BIT3	Fan Failure	(0- Normal 1- Failure)	
	BIT4	Output Overload	(0- Normal 1- Failure)	
	BIT5	Output Short Circuit	(0- Normal 1- Failure)	
	BIT6	Battery Failure	(0- Normal 1- Failure)	
02 Byte	BIT7	Battery Over Voltage	(0- Normal 1- Failure)	
	BIT0	Output Status	1. AC Bypass	0. Inverter
	BIT1	Priority Modes	1. AC Priority	0. DC Priority
	BIT2	Power On Modes	1. Power Save	0. Normal
	BIT3	Output Frequency	1. 60HZ	0. 50HZ