RK100-02 Communication Protocol（MODBUS-RTU）

1.Communication parameters (factory default):

Baud rate: 9600bps, Data bits:8, Stop bit:1, Check bit:no, Address:0x01

2.Examples for read data

Host Scan Order：

Slave id	Function code	Address_H	Address_L	Quantity_H	Quantity_L	CRC_L	CRC_H
0x01	0x03	0x00	0x00	0x00	0x01	0X84	0x0A

Sensor Response

Slave id	Function code	Number of bytes	Radiation (Unsigned integer 2 bytes)	CRC_L	CRC_H
0x01	0x03	0x02	0x00B4	0XB8	0X33

Wind Speed:(00B4)H=(180)D, 180/10=18(m/s)

3.Examples for modify the address (Read and write address must be 00H)

Host Scan Order(change to 0x01)：

Slave id	Function code	New id_L	CRC_L	CRC_H
0x00	0x10	0x01	0xBD	0XC0

Sensor Response (Fixed command)

Slave id	Function code	CRC_L	CRC_H
0x00	0x10	0x00	0x7C

4.Examples for read the slave address (Read and write address must be 00H)

Host Scan Order (Fixed command)

Slave id	Function code	CRC_L	CRC_H
0x00	0x20	0x00	0X68

Sensor Response

Slave id	Function code	Address	CRC_L	CRC_H
0x00	0x20	0x01	0XA9	0XC0

5.Register description

Register name	Function code	Register address	Data type	Data length（byte）	R/W	Remark
Wind Speed	0x03	0x0000	Unsigned integer	2	R	m/s