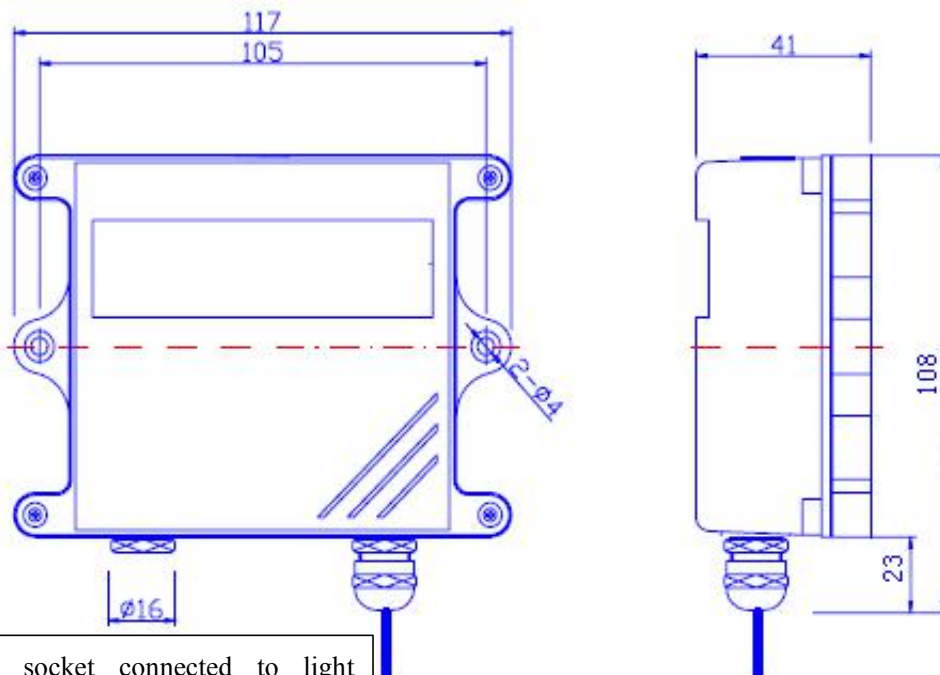


Radiation transmitter(Data logger)

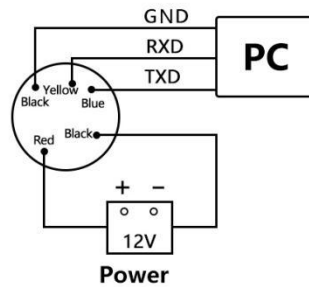
Radiation transmitter dimensions:



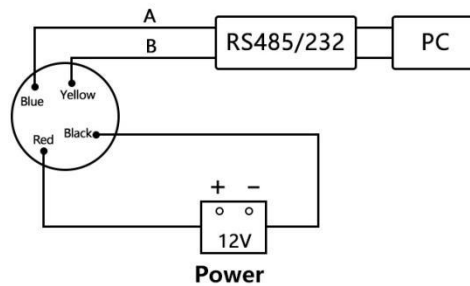
3-core aviation socket connected to light radiation meter

Interface method	Voltage type	Current type	RS485/RS232
Model	RY-ST		
Output signal	1-5V	4—20mA	Modbus communication protocol
Accuracy	5%		
Communication protocol	Modbus communication protocol		
line	3 line	3 line	4 line
Working power	9-18V DC power supply, 12V is recommended, can be increased to 24V according to need		
Working temperature	-30~+60℃		
Ingress Protection	IP65		
Fixed form	Outdoor, mounting plate installed on sensor cross arm can be provided		
Storage conditions	T: -40~+60℃ RH: 20%~90%RH		

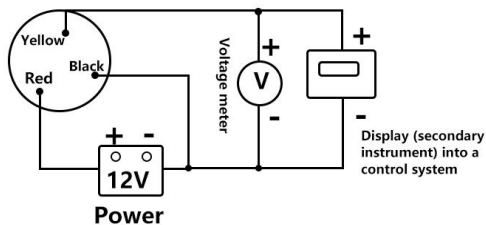
Wiring method:



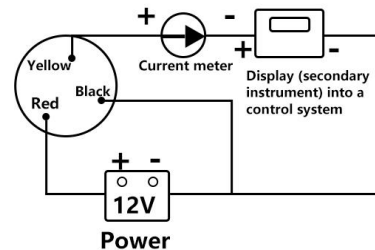
RS232 Interface wiring



RS485 Interface wiring



Voltage output wiring



Current output wiring

COMMUNICATION PROTOCOL

1.Communication specification

9600,8,1,N,N

2.Unified Data Packet Format

(XX: slave station number 0X01-0XFF; CRClo CRChi: CRC check code low byte first, high byte second)

3.Write station number command

Host send command format:

Device address Function code Start register address No. of registers Data length
Data CRC check

00 10 0001 0001 02 00xx CRCloCRChi (XX=0X01-0XFF)

Slave response command format:

Device address Function code Start register address No. of registers CRC check
00 10 0001 0001 CRCloCRChi

Example: (address is changed to 33)

Command 00 10 00 01 00 01 02 00 33 EA 04

Respond 00 10 00 01 00 01 51 D8

Read station number command (fixed command)

Host send command format:

Device address Function code Start register address No. of registers CRC check

00 03 0001 0001 CRCloCRChi

Slave response command format:

Device address Function code Data length Data CRC check

00 03 02 00xx CRCloCRChi (XX=01-ff)

Example: (address:FF)

Command 00 03 00 01 00 01 D4 1B

Respond 00 03 02 00 FF C5 C4

1、 Read station number command

Host send command format:

Device address Function code Start register address No. of registers CRC check

xx 03 0000 0001 CRCloCRChi

Slave response command format:

Device address Function code Data length Data CRC check

xx 03 02 00yy CRCloCRChi

Example:

Command: FF 03 00 00 00 01 91 D4

Respond: FF 03 02 00 11 51 9C

Radiation = 00 11 = 17 = 17 W/m²