

Product introduction

ME-WSG series products adopt a high-performance temperature and humidity sensor, cast aluminum shell and stainless steel probe, can be installed in flammable and explosive danger areas. The product has a wide range, high precision, and fast response speed and long-term stability, good qualitative and other characteristics.

Performance characteristics

- The transmission part adopts a fully sealed flameproof shell design, and the explosion-proof mark Exd IIC T6 Gb
- Low power consumption and strong anti-interference
- High measurement accuracy, wide range, long-term stability

Technical parameters

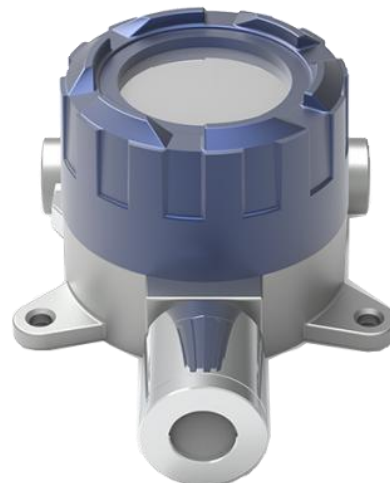
Power supply	DC 24V
Range	Humidity:0%RH ~ 100%RH; temperature:-40°C ~ 80°C
accuracy	Humidity $\pm 2\%$ RH (10%RH ~ 90%RH) temperature $\pm 0.2^\circ\text{C}$ (20°C)
Output signal	4-20mA(Two Wire)
Response time	<1 second
Data conversion	temperature=Temperature current*7.5-70 humidness=Humidity current*6.25-25

Shape&wiring

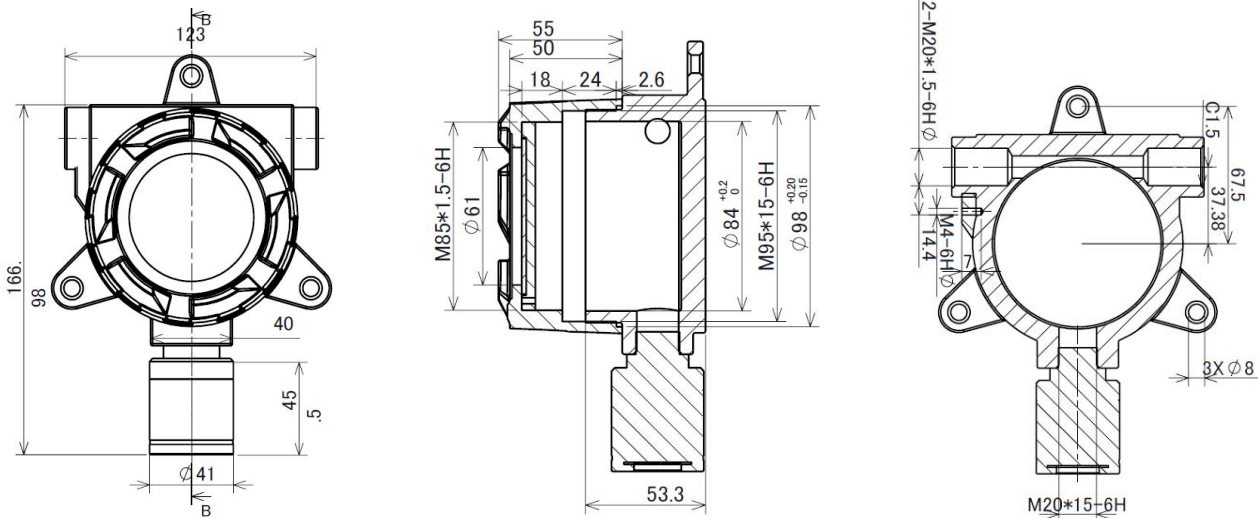
Pipe-mounted



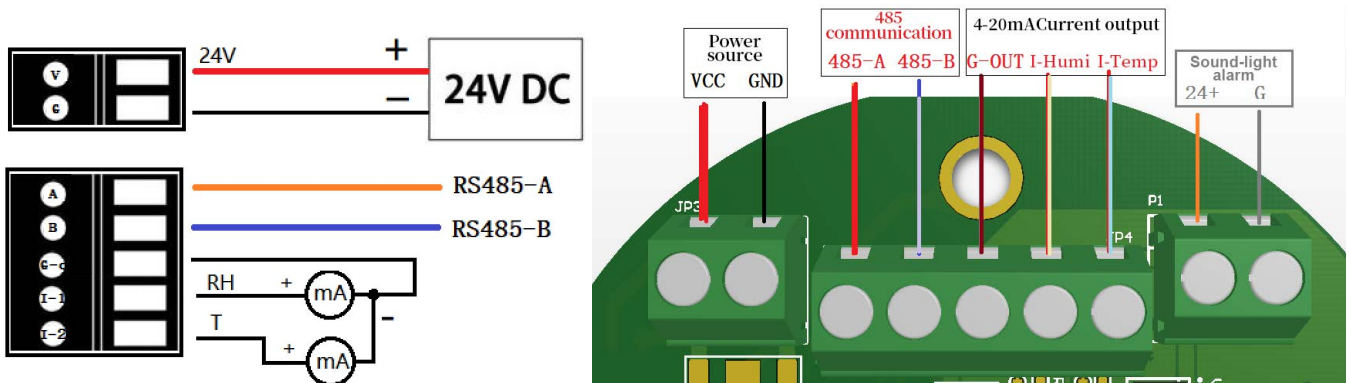
Wall-mounted



Dimensions



Connection



Installation

Installation steps:

- 1、 The transmitter has 3 $\phi 8$ mounting holes and is fixed to the wall with the standard expansion screws.
- 2、 Connect the transmitter to the acquisition equipment with a cable.
- 3、 For pipe mounted version, please consult us.

Installation location:

- 1、 The transmitter should be placed vertically as much as possible to ensure that the sensor probe is under the transmitter when the wall is installed.
- 2、 The installation height is the main environmental area required to be measured.

Installation considerations:

- 1、 Avoid installing in areas where heat transfer is easy and directly causes a temperature difference from the area to be measured, otherwise it will cause inaccurate temperature and humidity measurement.
- 2、 Install in an area with a stable environment, avoid direct light, stay away from windows and air conditioning, heating and other equipment, and avoid facing windows and doors.
- 3、 Try to stay away from high-power interference equipment to avoid inaccurate measurements, such as frequency converters, motors, etc.

Use

- 1、 Wire according to the manual, make sure that the wiring is correct, turn on DC 24V, and the corresponding current value will be output when measuring with a multimeter.
- 2、 To disassemble the transmitter, you must first disconnect the power supply and then disassemble it.
- 3、 Water is protected from entering the transmitter to avoid damage.
- 4、 Transmitter with LCD display, energized, can directly observe whether the display is correct.

Notes

- 1、 Please read this manual carefully before use to ensure that the wiring is correct. Any incorrect wiring can cause irreversible damage to the transmitter.
- 2、 Avoid installing in areas where heat transfer is easy and directly causes a temperature difference from the area to be measured, otherwise it will cause inaccurate temperature and humidity measurement.
- 3、 Prevent chemical reagents, oil, dust, etc. from directly attacking the sensor, and do not use it for a long time in condensation and extreme temperature environments. Do not apply cold or hot shock.

Maintenance

- 1、 Long-term use of the transmitter can cause offsets, and it is best to calibrate it once a year to ensure measurement accuracy.
- 2、 If the sensor filter is made of metal, it can be disassembled after 2-3 months of use, and the filter screen can be cleaned to ensure normal air circulation.

Transportation & Storage

- 1、 Try to avoid vibration and handle it gently.
- 2、 Long-term storage conditions: 10 °C ~ 40 °C, 20%RH ~ 50% RH.

Unpacking inspection

- 1、 After opening the package, check that the transmitter is intact.
- 2、 One transmitter, one manual, one certificate, one factory test report.

Troubleshooting

- 1、 When output, if the transmitter output is 0, or the output value is not within the range, please check whether the wiring is correct and firm.
- 2、 If it is not the above reasons, please contact the manufacturer.