

## Features

- Adopting imported high-precision MEMS sensor, long-term stability and anti-interference capability.
- Power supply and output has overload and reversed-connection function, protection level can reach IP65.
- Isolated output Optional.
- Varieties of installation and output modes available, no moving structure, easy to install and maintain.



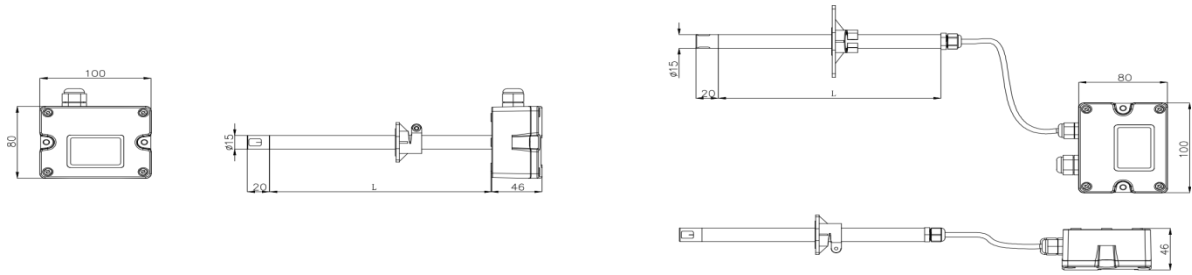
## Description

Based on heat conduction principle, the sensor probe of Air Velocity Transmitter LFS10 is made of MEMS technology, which has the characteristics of high measurement accuracy, wide measurement range, good stability, and strong environmental adaptability. It is an ideal choice for wind speed measurement in HVAC, pipeline air volume measurement, process and environmental control and other application scenarios.

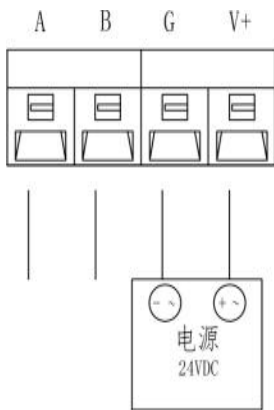
## Specification

Working voltage	24V AC/DC±20%
Range	0-10m/s, 0-15m/s, 0-20m/s, 0-30m/s optional
Accuracy	± (0.2m/s+3%of mv) (20°C,45%RH and 1013hPa)
Output mode	RS485/Modbus,0~10VDC/4~20mA (3-wire) optional
Output load	≤500Ω(Current mode), ≥2KΩ(Voltage type)
Working temperature	-10~ +60°C
Storage temperature	-20 ~+80°C
Display	Optional LCD display, with unit display and backlight
Protection	IP65, IP20 (Probe)
Sheathing material	PC, PA6 (Probe)

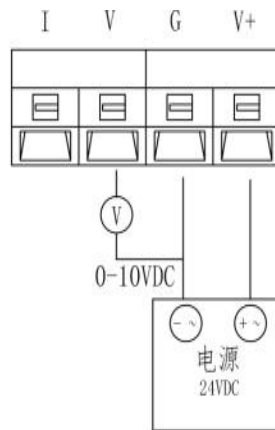
Dimension in: mm



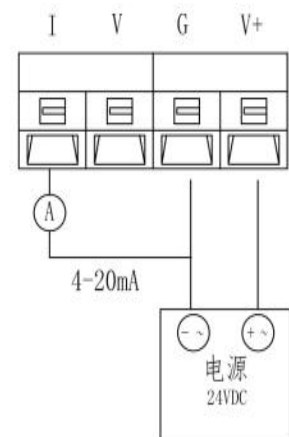
## Wiring instructions



RS485 output

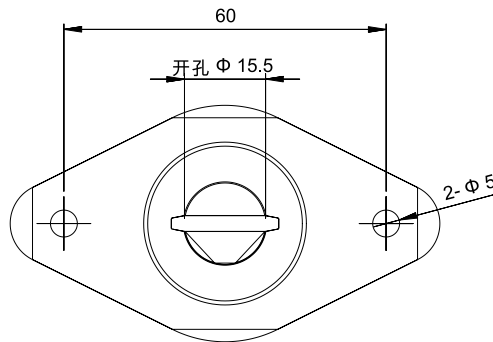


Voltage output

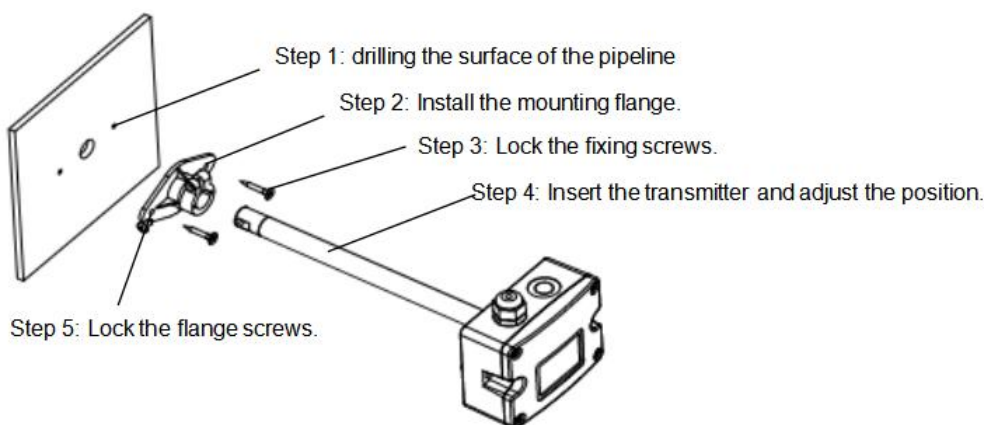


Current output

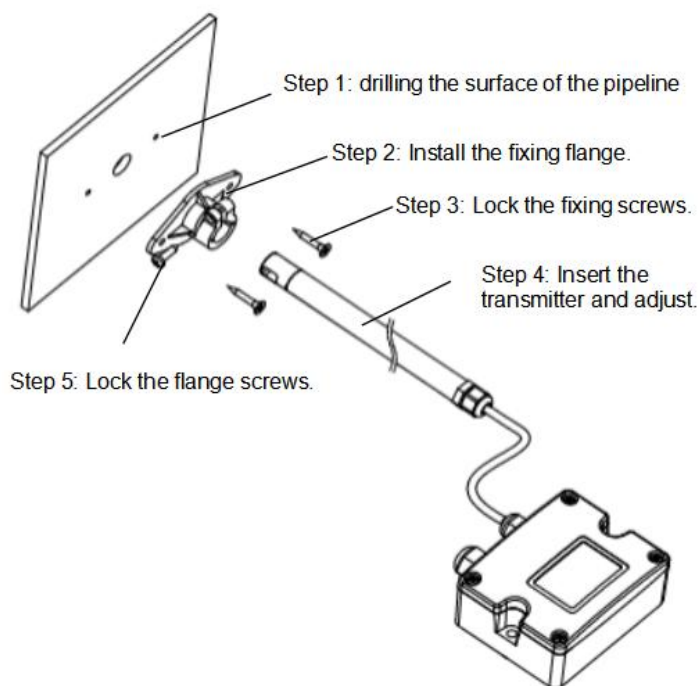
## Installation



Mounting Flange Size



### LFS101 Installation Diagram



### LFS102 Installation Diagram

## Installation Note:

- 1.LFS101/102 recommends that flange accessories be used for installation, and the insertion depth can be adjusted. Fix the mounting flange on the air duct with two screws, and the screws on the flange can lock the inserted probe. The opening of the duct is  $\phi 15.5\text{mm}$ . After the probe is installed, the duct should be sealed to avoid air leakage.
2. When installing the air duct, pay special attention to the fact that the air inlet is consistent with the wind speed flow inside the duct, and the sensor is parallel to the wind speed flow.
3. Open the upper cover, connect the power wires and signal wires into the bottom box through the waterproof connector, complete the wiring according to the wiring diagram, and install the upper cover back as it is. Pay attention to the sealing between waterproof joint and bottom box (with sealing ring) and the sealing between upper cover and bottom box (with sealing ring), so that the overall protection level can reach IP65.

**Order Ref No.**

LFS101-	Duct Type Air Velocity transmitter		Model
LFS102-	Split Type Air Velocity transmitter		
	VI	0~10VDC/4~20mA	Output
	RS	RS485/Modbus	
	1	With display	Display
	0	NO	

**Model Selection Note:**

1. For example, Model LFS102-VI1 means Split type, with 0~10VDC/4~20mA output and LCD display.
2. Do not touch or rub the sensor probe, and do not use any mechanical tools to clean it.
3. It is recommended to use flange to install LFS101/102, and the insertion depth can be adjusted. Fix the mounting flange on the air duct with two screws, and the screws on the flange can lock the inserted probe. The air duct opening is  $\phi$  15.1mm. After the probe is installed, the air duct opening should be sealed.
4. When installing onto air duct, pay special attention that the air inlet direction is consistent with the wind flow inside the duct, and the sensor should parallel to the wind flow.
5. Open the upper cover, connect the power wires and signal wires through the waterproof connector, complete the wiring according to the wiring diagram, and install the upper cover back. Pay attention to the sealing between the waterproof connector and the bottom box, and the sealing between the upper cover and the bottom box (with sealing ring) to make the overall protection level reach IP65.