

## FEATURES

# LEFOO

## LFS10 AIR VELOCITY TRANSMITTER MANUAL PRODUCT OPERATION MANUAL



- 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.

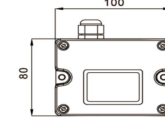
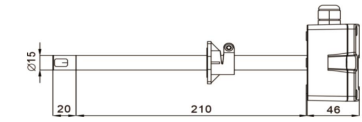
01

## SPECIFICATIONS

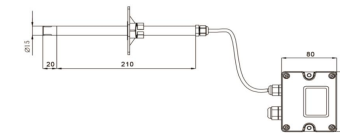
Working voltage	24V AC/DC±20%
Range	0-10m/s, 0-15m/s, 0-20m/s, 0-30m/s optional
Accuracy	±(0.2m/s+3% of mv) (20 °C, 45%RH and 1013hPa)
Resolution	0.01m/s
Output mode	RS485/Modbus, 0-10VDC/4-20mA (3-wire) optional
Output load	≤500Ω(Current mode), ≥2KΩ(Voltage type)
Working temperature	-10~ +60 °C
Storage temperature	-20 ~+80 °C
Probe length	210mm(optional)
Display	Optional LCD display with unit display and backlight
Protection	Ip65, Ip20(Probe)
Sheathing material	PC, PA6(Probe)
Electromagnetic Compatibility	EN 61326-1
Certification	ROHS, EU Electrical Safety Standards CE

02

## DIMENSIONS : MM



DUCT TYPE



SPLIT TYPE

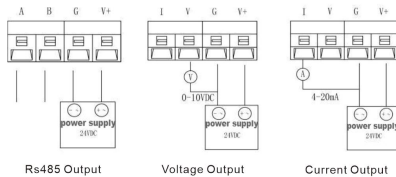
03

## SELECTION INSTRUCTIONS

LFS10-	Air Velocity Transmitter	Model
VI	0~10VDC/4~20mA	Output
RS	RS485/Modbus	
1	Duct Type Air Velocity Transmitter	Installation method
2	Split type wind speed transmitter	
D	with display	Display
N	without display	

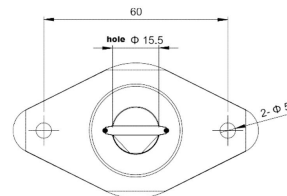
Selection example LFS10-RS1D: Duct-type wind speed transmitter, output: RS485/Modbus, with display.

### WIRING INSTRUCTIONS

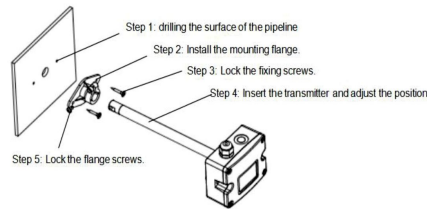


04

## INSTALLATION



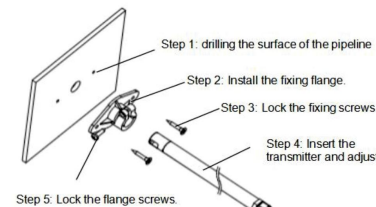
Mounting Flange Size



LFS101 Installation Diagram

05

## INSTALLATION NOTE:



LFS102 Installation Diagram

1. LFS10 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  $\phi$  15.5mm. 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.
4. Do not touch or rub the sensor probe, and do not use any mechanical tools to clean it.

07