LFW Series Velocity Transmitter

LEFOO力夫

Product Features

- Using microprocessor and high precision, high resolution analog to digital, digital to analog conversion chip
- Constant temperature differential thermal balance principle, without temperature and pressure compensation, can be accurately measured, high precision
- Platinum wire ceramic high temperature sintered sensor, high sensitivity, safe measurement of breeze and high wind speed, long Service life
- Professional algorithm, can achieve high linearity, high repeatability, high precision; achieve large pipe diameter and small air volume measurement
- Wide range ratio, high accuracy, can measure wind speed as high as 30m/s, as low as 0.1m/s; low flow velocity measurement is sensitive, can be used for gas leak detection, with negligible pressure loss

Overview

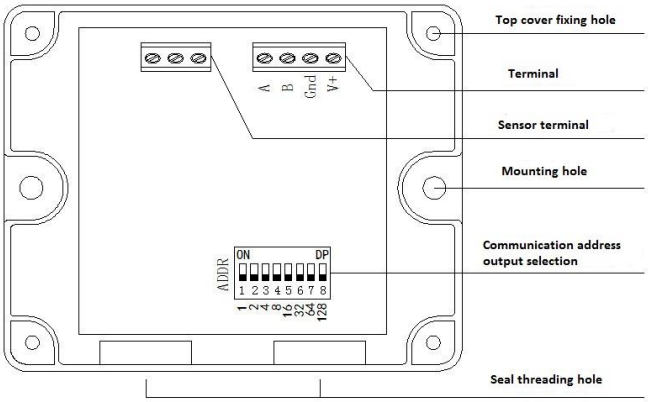
The wind speed sensor is based on the principle of thermal diffusion, requiring very little air, and its performance is stable and reliable even in harsh environments, with better stability than other traditional wind speed sensors, can guarantee faster breeze speed measurement and accuracy, wide range ratio, the detection data is accurately calibrated in the full range through the internal microcontroller, and linear compensation and temperature compensation are realized digitally, so the accuracy and resolution are high; long-term stability is good and cost-effective. Applied in HVAC heating, ventilation and air conditioning; filter pressure drop monitoring; pipeline air flow; variable air volume system; exhaust system; wind speed monitoring; heating safety cabinet; wind speed test in the fields of electronics, medical environment, etc.

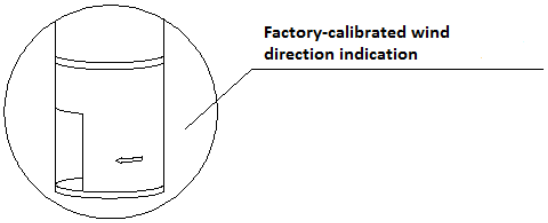
Technical parameter

Measurement Range	0-30M/S
Output	RS-485 or 4~20mA
Resolution	0.05M/S
Accuracy	0.2%F.S
Power Supply	DC15-30V
Humidity	0-90%RH No condensation
Operating temperature	-5~70℃
Probe length	Standard 220mm Can be customized below 1500mm

Product structure and installation instructions

Product structure description

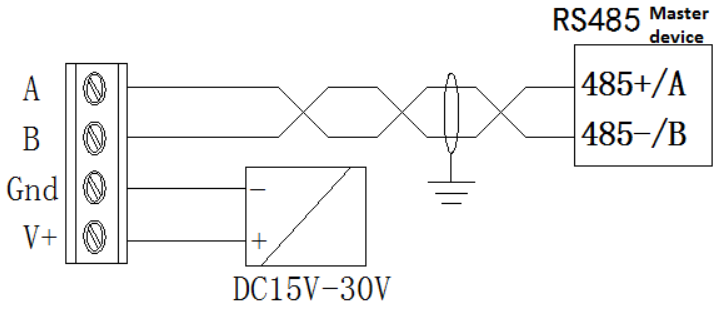




Installation directions

The wind direction measured on site is consistent with the direction calibrated by the factory, so that higher accuracy and more accurate measurement results can be obtained.

Line connection

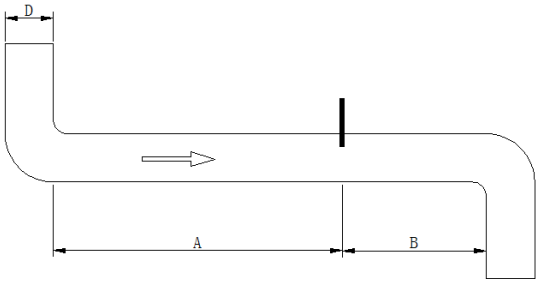


Installation requirements

The ideal installation environment for the wind speed sensor is in a straight pipeline. When it must be installed in a curved pipeline, the following principles should be followed to select the installation point:

The measurement is located at a distance of 6 times the diameter of the bent air inlet pipe; A=6xD

The measurement is located at a distance of 3 times the diameter of the bent air inlet pipe; B=3xD



Due to different pipelines and turbulence effects and other factors, depending on the sensor, the wind speed sensor should be installed for multiple position adjustments. It is recommended that the measurement point of the single-point wind speed sensor should be selected at one-third or two-thirds of the pipe diameter, and observes that the measurement result does not jump too much, avoid measuring the pipe wall or pipe center.