

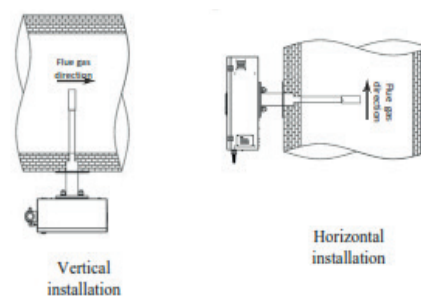
PTF-100 Temperature, Pressure & Velocity Integrated monitor has high precise micro-differential pressure sensor and static pressure sensor. Meanwhile, it is equipped with purge unit. PTF-100 is specially developed for continuously monitoring high dust level, high temperature, high humidity and low flow rate of emission flue gas. It can be applied with CEMS to carry out real time monitor of temperature, pressure and velocity.

Compared with conventional integrated monitor: PTF-100 can measure flow rate low to 2m/s and has auto timing or manual calibration for dynamic pressure and flow rate; with LCD screen to display all measurement data and signal; easy for reading and debugging.

## Installation Instruction

When taking differential pressure, differential pressure transmitter needs to measure total pressure and static pressure. Should pay attention on pitot direction during installation. Make sure the direction of two pressure taking ports is the same as flow direction of flue gas: total pressure taking port is directed to coming direction of flue gas and static pressure taking port is directed to leaving direction of flue gas.

There are two installation methods, vertical installation and Horizontal installation, as showed on below figure:



## Installation Instruction

- 2m/s low flowrate measurement by pressure sensor of ultra-low range
- Operation unit with LCD screen: perfect HMI provided
- Settable parameters: timing purge, velocity field, pitot coefficient and etc
- Protection for over pressure to avoid damage to pressure sensor and lower operation cost
- Auto zeroing calibration
- Anti-blocking and anti corrosion for pitot
- Strengthen protection for signal output

## Specification Parameter

Range	0~40m/s; 0~15m/s (Optional)
Accuracy	±5% F.S
Principle	Pitot
Output Signal	3x4-20mA, 1x232/485
Pressure Limit of differential pressure transmitter	4.0Mpa
Pitot Material	316SS, 316L SS
Pitot Insert Length	500 ~ 1700mm (Optional)
Range of pressure transmitter	-5kPa~5kPa, -200kPa~+200Pa (Customizable)
Range of temperature transmitter	0~300°C (Customizable)
Purge pressure	0.3MPa~0.8MPa
Temperature range of flue gas	40°C~300°C (customizable)
Work Temperature	-40°C~70°C
Storage Temperature	0~50°C
Storage Humidity	0~85%RH