

FTE120 OEM Hot wire air velocity transmitter (duct type)

The best choice for wind speed / flow monitoring



New
OEM
Economy

Applicable Object :
Distributor / System Integration
Equipment Manufacturers

RTD Platinum Resistance	± 3 % of F.S.	0 m/s 20 m/s	0.2 m/s	CE	PC, Fire-Proof, HB Class	SUS 304 & PC+ Glass Fiber
Sensor	Accuracy	Highest Wind Speed	Micro-Flow	Certification	Housing	Probe Material

Introduction

eYc FTE120 Hot wire anemometer speed transmitter, RTD platinum resistance, low error rate, high stability, reaction quality. PC fire-rated polished plastic material casing, color is easy to identify, suitable for indoor environmental monitoring. Duct is for closed duct, process pipelines, such as parking garage, plants VOC emissions, flue emissions and flow / velocity of flow monitoring. Can be installed in hospitals or department stores HVAC system equipment and other small space equipment, wards, operating rooms or food court area of the air traffic management.

Feature

- **【Material】** SUS304 stainless steel probe, PC+glass fiber, temperature up to 120 °C
- **【PC Housing】** PC fire-resistant plastic cover, HB PC fire retardant
- **【Cost-Performance】** Affordable, economic, high accuracy, long-term stability
- **【High Stability】** RTD platinum resistance, low error rate, high stability, reaction quality
- **【Easy Installation】** Compact size, simplicity style easy to install
- **【Electrical Protection】** Reverse protection circuit
- **【Environmental Protection】** CE certification and ROHS

Applications

- HVAC Process Monitoring / Air Conditioning / Ventilation Control
- Building / Plant / Cleanroom / Laboratory / Building Automation Environmental Monitoring
- Agriculture / Food / Electronics / Industrial Monitoring
- Residential / Hospital / Storage



Public places



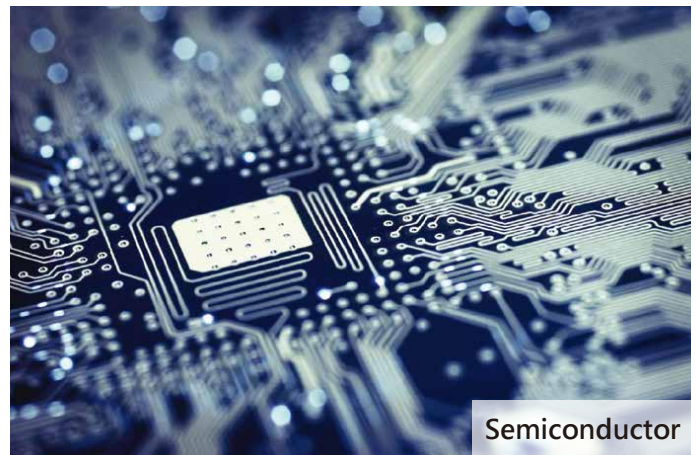
Food Industry



Lab



Clean Room



Semiconductor

Specification

Input

Sensor	RTD Platinum resistance
Measuring range	0 ... 20 m/s
Min. measuring range	0.2 m/s

Output

Output	4 ... 20 mA ; 0 ... 10 V
Signal connection	3 Wire
Load resistance	Voltage output $\geq 10 \text{ K}\Omega$; Current output $\leq 500 \Omega$
Response time	Reach 90% of ultimate value within 3 sec.
Angular dependence	< 3% Measuring value (When the angle < 10 %)

Accuracy

Accuracy	$\pm 3 \%$ of F.S.
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Warm-up time

< 2 Min. · Stable time 20 mins.

Environmental

Media measured	Ambient
Working Temp.	0 ... 50 °C
Working humidity	95 %RH (non - cond.)
Storage Temp.	-20 ... + 60 °C

Electrical

Power supply	8 ... 35 VDC & 8 ... 30 VAC
Current consumption	DC 8V : 120mA · 24V : 80mA AC 8V : 150mA · 24V : 120mA
Instantaneous current	DC 8V : 350mA · 24V : 300mA AC 8V : 350mA · 24V : 180mA
Overvoltage protection	DC : < 45V ; AC : < 40V
Electrical connection	3-Wire : 3P Terminal ; Plastic cable gland

Installation

Installation	Duct-fixed seat
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Protection

Protection rating	IP 54
Electrical protection	⊙ Polarity protection ⊙ Over-voltage ⊙ Short-circuit

Certification

CE · ROHS

Material

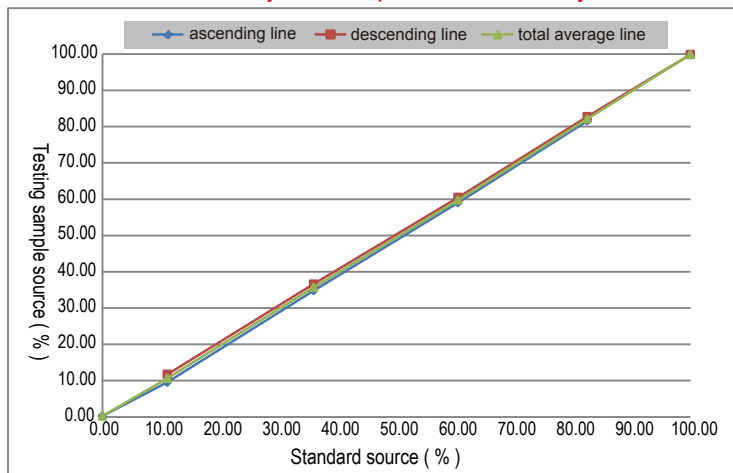
Housing	PC , Fire-proof, HB class
Probe	SUS 304
Filter	PC+Glass fiber

Weight

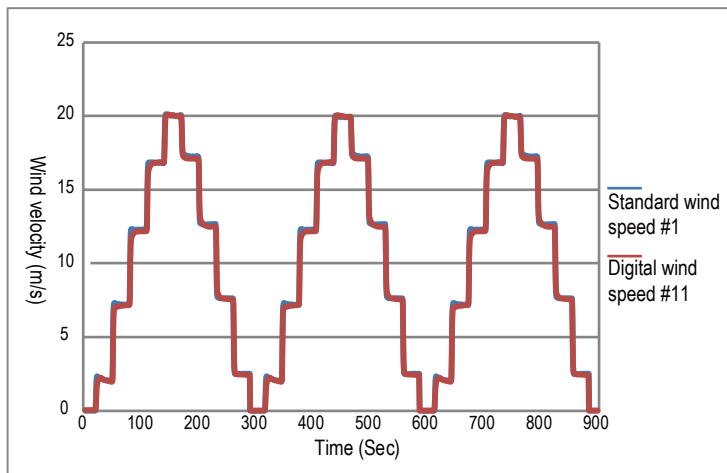
FTE120	133 g
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Measuring curve

※ According to IEC 61298 and ISO 17025 standard to measuring 3-cycle curve.
As the charts result, accuracy of test sample match with accuracy chart of standard source



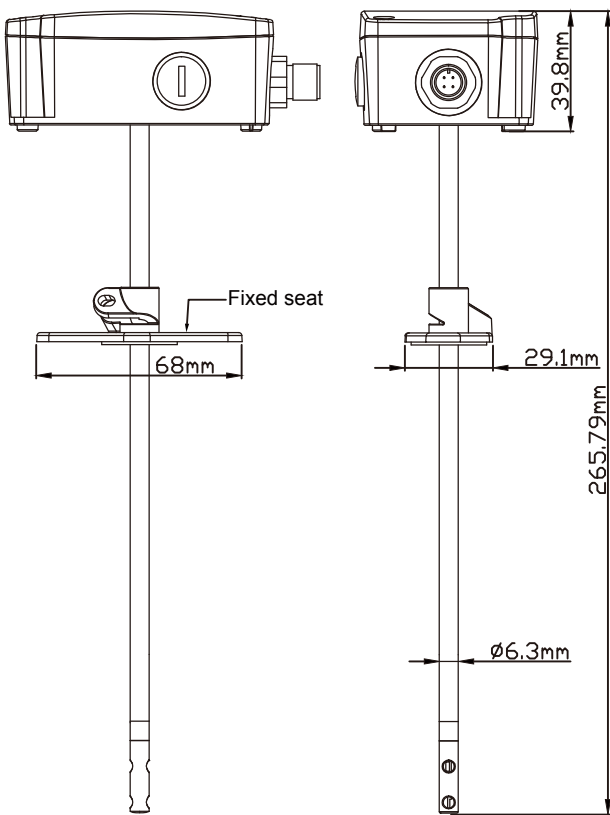
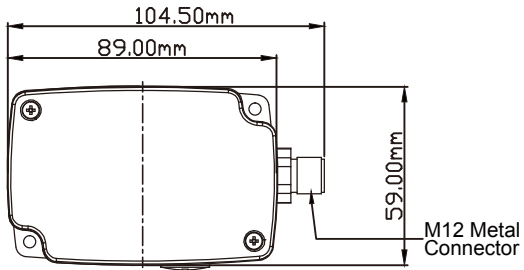
3-Cycle curve



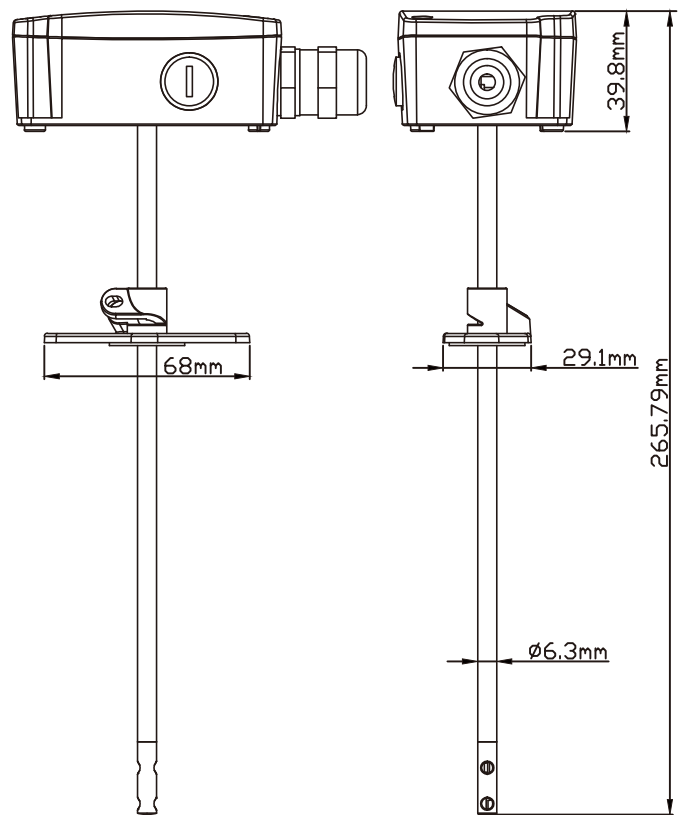
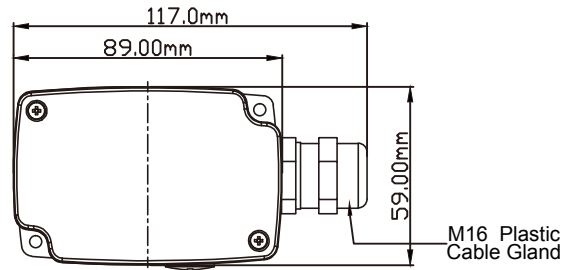
Dimension

• FTE120 Duct

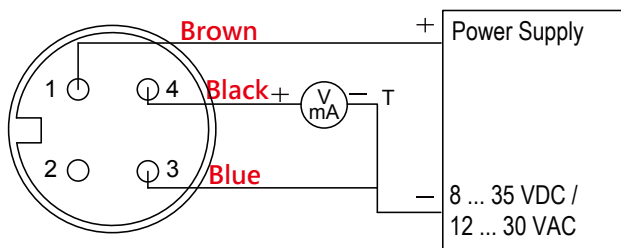
1.M12 Metal Connector



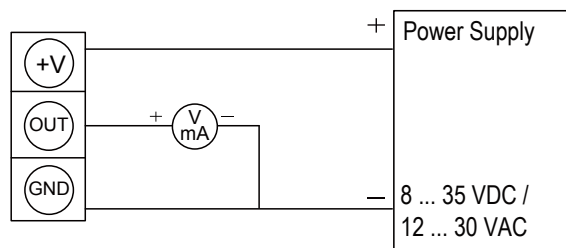
2.M16 Plastic Cable Gland



Connection diagram



M12 Metal Connector (3-wire)



Plastic cable gland (3-wire)

Ordering guide

Item	FTE	120	-	10	6	1	-	0	N
Installation	Duct	120							
Range	10 m/s 20 m/s Customize		-	10 20 YY					
Output	4 ...20mA (3-wire) 0 ... 10V (3-wire)				1 6				
Power Supply	8 ... 35 VDC & 8 ... 30 VAC					1			
Modbus	Analogue						-	0	
Option	Plastic cable gland Metal connector								N M