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# Air flow / Air velocity-FTE120-I FTE120-I Inline Type Air Flow Transmitter



### Features |

- Optional multiple output : 4 ... 20 mA / 0 ... 10 V / RS-485 / Frequency / Pulse ( Option )
- Accuracy : ±2% F.S., Operating pressure : Max. 10 bar
- Calibrated by sonic nozzles calibration system
- Multiple diameter (DN10 / DN15 / DN20 / DN25 ), easy installation
- Polycarbonate housing, aluminum alloy pipe
- RS-485 programmable software : Data logger / Charts

### | Applications |

Pneumatic system / Compressed air system / Industrial machinery equipment Pipeline air flow monitoring



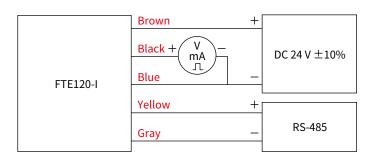
Air flow / Air velocity-FTE120-I

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# |Specification|

Input		Electrical	
Sensor type	Thermal mass flow sensor	Power supply	DC 24 V $\pm 10\%$
Measuring range*	DN10 : 0 150 l/min	Current consumption	100 mA
	DN15 : 0 500 l/min	Overvoltage protection	DC:<40 V
	DN20 : 0 1000 l/min	Electrical connections	PVC cable (1 m)
	DN25 : 0 1500 l/min		
Minimum measuring range	5 l/min	Installation	
*The measurement range is defined at th	e standard condition(1013 mbar, 20°C).	Inline type	DN10 - G1/4"
This product is also calibrated at this con	dition.		DN15 - G1/2"
Output			DN20 - G3/4"
Signal	4 20 mA / 0 10 V / RS-485		DN25 - G1″
	Frequency ( 0 100 Hz )		
	Pulse ( 1 100 l/pulse, option )	Protection	
Accuracy	±2% F.S.	IP rating	IP 65 (Housing) / IP20 (Probe)
Temp. influence	0.2% / °C	Electrical protection	Reverse polarity
Response time	t90≦5 sec		■ Over-voltage
Load resistance	Current output : $\leq$ 500 $\Omega$		■ Short-circuit
	Voltage output : $\geq 100 \ \text{K}\Omega$		
Warm-up time	< 2 min.	Certification	
		Certification	CE
Environmental			
Medium	Air	Material	
Housing operating Temp. / Humid.	0 50°C / 0 95%RH(Non-condensing)	Housing	PC
Medium operating Temp. / Humid.	0 50°C / 0 95%RH(Non-condensing)	Pipe	Aluminum alloy
Storage Temp.	-20 +60°C	Weight	DN10 : 160 g
Operating pressure	10 bar	······	DN15:400 g
			DN20 : 465 g
			DN25 : 520 g

#### Connection Diagram



\*Please make sure the product and the device which connect with RS-485 are on common ground, avoid damaged product.

#### Calibration System



Air volume standard calibration system Air volume : 0.5 m³/h ... 1000 m³/h

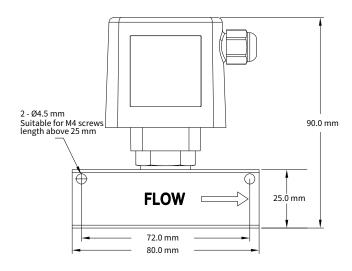
Referring to ISO 9300 "Flow Measurement of Critical Flow Venturi Nozzles", this device is a standard flow device combination consisting of multiple venturi nozzles according to the maximum and minimum flow ranges that need to be calibrated. 2/6

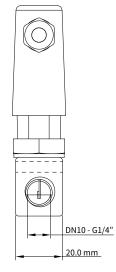
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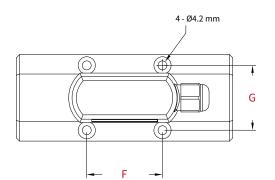


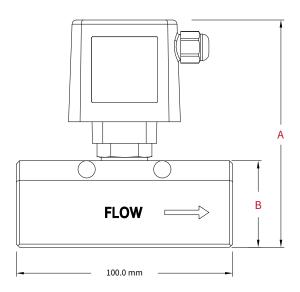
DN10 (1/4")



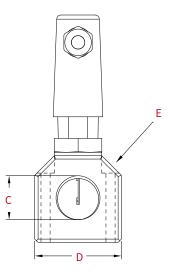


DN15 (1/2") \ DN20 (3/4") \ DN25 (1")





	DN15 (1/2")	DN20 (3/4")	DN25 (1")
Α	A 105.0 mm 110.0 mm		115.0 mm
В	40.0 mm	45.0 mm	50.0 mm
С	DN15 - G1/2"	DN20 - G3/4"	DN25 - G1"
D	40.0 mm	45.0 mm	50.0 mm
E	Suitable for M4 screws length above 45 mm	Suitable for M4 screws length above 50 mm	Suitable for M4 screws length above 55 mm
F	35.0 mm	50.0 mm	50.0 mm
G	30.0 mm	37.0 mm	40.0 mm



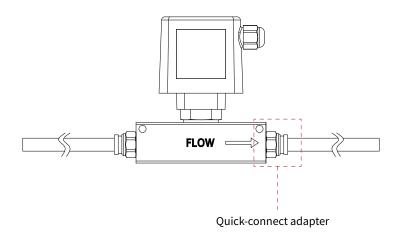


#### | Air Pipes Installation |

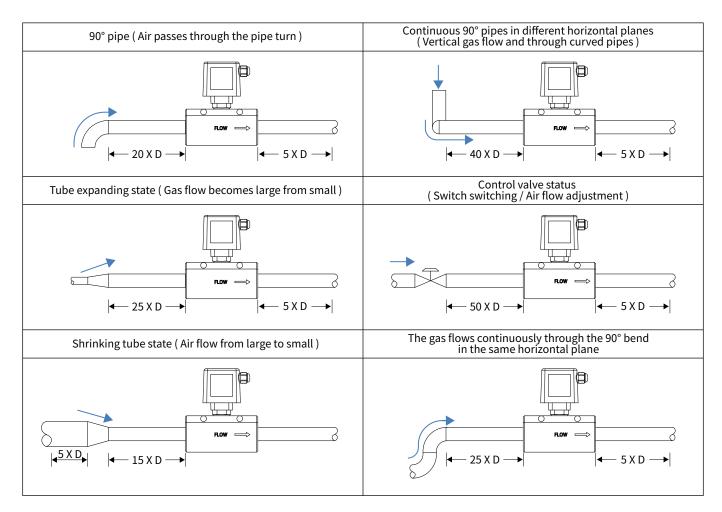
It can be connected to air pipes through commercially available quick-connect adapters.

The common thread sizes for adapters are G1/4" and G1/2", and the common pipe diameters for connections are Ø 4 ... 16 mm.

- To ensure a stable flow profile inside transmitter, it is necessary to keep a straight pipe section during installation.
- The length of the straight pipe section can be referred to the "Installation Instructions" below.



#### |InstallationInstructions|

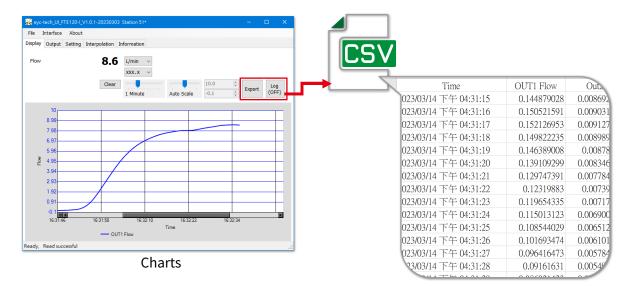




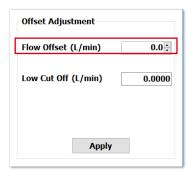
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### |With RS-485 Software |

#### Data logger and Charts



#### Offset adjustment



#### Adjustable range

File	Interface	About				
Display	Output	Setting	Interpolation	Information		
0	Π1 Quantity	/ Flow	Volume	~		
	Response Rate (0~100) 98 🛓					
F					_	
	Analog F	Range	4-20mA	~		
	Upper Range			150.0 🔹		
	Lower R	ange		0.0		
	🗌 Alarm	Mode				
	Upper Po	oint		10.0 🛓		
	Lower Po	oint		8.0 🔹		
	Upper Le	vel		20.0 🛓		
	Lower le	vel		4.0 🔺		
		1	Apply			



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# | Ordering Guide |



# Additional Option Test Report | For more detailed information please contact us.

#### ISO 9001

Project	Measurand level or range	
Air volume	Air volume : $\leq 0 \dots 1000 \text{ m}^3/\text{h}$	