Air flow / Air velocity-FDM06S



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Differential Pressure Type Air Flow Transmitter



Features

- Adopting the differential pressure principle for air flow measurement
- Enable bi-direction air flow measurement
- Measures differential pressure, pressure, and temperature simultaneously
- Special diversion design reduces the impact of air flow turbulence
- Calculate medium density and mass flow rate
- Rugged and durable design for high temperature and high-pressure environment

| Applications |

Air compressor system / Industrial process / Exhaust system



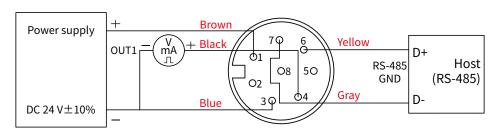
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| Specification |

Input		Environmental	
Sensor type	Differential pressure sensor	Measuring medium	Air
Measuring range	Standard version : ± (0.8 40 m/s)	Operating Temp.	-20 +60°C(Display)
	High-pressure version : ± (10 200 m/s)		-20 +80°C(No display)
Installation angle effect	<3% of the measured value	Operating Humid.	0 95%RH(Non-condensing)
	(When the installation angle < 10°)	Probe operating Temp.	100°C (Optional 200°C)
		Storage Temp.	-20 +80°C
Output		Storage Humid.	0 95%RH(Non-condensing)
Output	4 20 mA + RS-485	Probe pressure	Standard version : 2 bar
	0 10 V + RS-485		High-pressure version : 10 bar
	Frequency (0 100 Hz) + RS-485		
	Pulse (Option) + RS-485	Installation	
Preset output	Out1 : Air velocity	Duct type	3/4" PT movable thread
Signal connection	3-wire	Flange pipe type	2" 6"
Warm-up time	<60 sec	Inline type	2"
Response time	t90<5 sec		
Load resistance	Current output : ≦500 Ω	Certification	
	Voltage output : ≧10 KΩ	Certification	CE
Accuracy		Protection	
Accuracy	$\pm 1.5\%$ F.S. (Option $\pm 1\%$ F.S.)	IP rating	IP65 (Body) / IP20 (Probe head)
Temp. influence	0.05% / °C	Electrical protection	■ Reverse polarity
			■ Over-voltage
Electrical			■ Short-circuit
Power supply	DC 24 V±10%		
Current consumption	<0.1 A	Material	
Overvoltage protection	DC:<30 V	Display	PC with glass fiber
Electrical connections	M12 connector	Housing	SUS304
		Probe	SUS304
		Probe head	SUS304
		Weight (without cable)	575 g (Display, probe length 180 mm)
			692 g (Display, probe length 330 mm)
			602 g (No display, probe length 180 mm)
			719~g (No display, probe length 330 mm)

| Diagram |







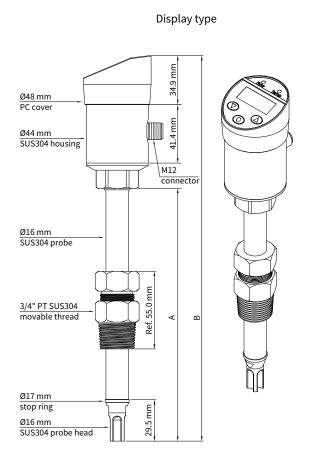
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| Wind Tunnel Calibration System |



The wind tunnel calibration system provides a stable and standardized environment for calibration, is not affected by external factors, and has an automated detection system to greatly improve calibration accuracy and reliability. It follows the operating standards of ISO/IEC 17025 and a calibration report can be purchased separately.

Dimension | Unit:mm



	Display type			
A Probe length	180 mm	330 mm		
B Product length	273.9 mm	423.8 mm		

	3.0 mm	
Ø44 mm SUS304 cover	۽ ا	
Ø44 mm SUS304 housing	SS.0 mm	
	M12 cons	nector
Ø16 mm SUS304 probe		
3/4" PT SUS304 movable thread	Ref. 55.0 mm	B
Ø17 mm stop ring Ø16 mm SUS304 probe hea	29.5 mm	

No display type

	No display type			
A Probe length	180 mm	330 mm		
B Product length	255.5 mm	405.5 mm		



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| Diameter Coefficient Table |

Diameter	Diameter Coefficient PF			
	Standard version : ± (0.8 40 m/s)	High-pressure version : ± (10 200 m/s)		
DN100	0.727	0.840		
DN150	0.780	0.840		
DN200 or more	0.816	0.843		

Ordering Guide |

FDM06S	_	Range 04	Output _	Pr –	obe length	Installation 3	Display
							N : Without display D : Display
			2:420 mA + RS- 3:010 V + RS-48 4: Frequency + RS 5: Pulse (Option)	85 5-485			4"PT movable thread) ype (2" 6")(Customization) ")(Customization)
					Duct type		
					1:180 mr		
		Standard ve			2:330 mr	n	
		04: ±40 m/	S		W : Custor	mization	
		High-pressu 20 : ±200 m			Flange pipe N : Not ap	type & Inline type	
			<i>i</i> -		not up	pricable	

^{*}The default output is unidirectional and in the positive direction.

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

■ILAC / TAF certification (ISO/ IEC 17025)

YUDEN-TECH CO.,LTD. Calibration Laboratory - (ILAC / TAF) Test report. (TAF accreditation: 3032, complying with ISO / IEC 17025) TAF has mutual recognition arrangement with ILAC MRA

Project	Measurand level or range
Air velocity transmitter	0.2 m/s 60 m/s

ISO 9001

Project	Measurand level or range	
Airvolocity / Airvolumo	Air velocity: ≦ 120 m/s	
Air velocity / Air volume	Air volume : 0.5 m³/h 1000 m³/h	4,