



Air Velocity / Flow / Differential Manometer

VF-5200 series (1)

IP65 CE RoHS

Pitot Tube measures Air Velocity/Flow

- VF-5204** Low Range Manometer (±70mbar)
- VF-5205** High Range Manometer (±1000mbar)
- VF-5204⁺** (Low Air Velocity/Air Flow/ Differential Manometer)
- VF-5205⁺** (High Air Velocity/Air Flow/ Differential Manometer)

Features

- Anemometer measurements for Air Velocity, Air Flow and Wind Pressure (VF-5200⁺ series)
- Manometer (Differential Pressure) Measurements
- 8 selectable units of pressure measurement
- ±0.25% F.S High accurate
- Fine ZERO & SPAN adjustments and ZERO setting
- USB / RS-232 Output
- Large LCD display with backlighting
- Data hold and Auto power off functions
- IP65,CE and RoHS approved

Applications :

Clean room, Compression cooling systems,
Air filter monitoring, Pumps, Fan control, Pneumatic controls,
Hospital, Duct airflow, Differential pressure monitoring, HVAC...etc.



Measurement Range

Model No.	Air Velocity(via Pitot tube)					Air Flow		Temperature	
	m/s	FPM/(ft/min)	Km/h	Knots	MPH	CFM	CMM	°C	°F
VF-5204⁺	105	20,670	378	204.10	234.90	2,066,793	58,525	0~+60	+32~140
VF-5205⁺	400	78,730	1,440	777.60	894.80	3,276,000	227,300		
Model No.	Pressure (Differential Pressure)								
	mbar	Pa	PSI	Bar	mmH ₂ O	inH ₂ O	mmHg	inHg	Max.Pressure
VF-5204	70	7,000	1.00	0.07	714	28.07	52.50	2.07	12.60PSI
VF-5205	1,000	100,000	14.50	1.00	10,200	401.50	750.00	29.53	21.75PSI

**Max. pressure " is the VF-5200 can withstand maximum pressure, entering the over pressure, the meter will be damaged.

Units Conversion Tables

	Pa	Kpa	mbar	mmH ₂ O	mmHg	inH ₂ O	PSI
Pa	1	0.001	0.01	0.10197	0.007501	0.004016	0.000145
Kpa	1000	1	10	101.9716	7.501	4.016	0.145
mbar	100	0.1	1	10.1972	0.7501	0.4016	0.0145
mmH ₂ O	9.807	0.009807	0.09807	1	0.0734	0.0394	0.001422
mmHg	133.3	0.1333	1.333	13.62	1	0.5362	0.0193
inH ₂ O	249.1	0.2491	2.491	25.4	1.865	1	0.0361
PSI	6895	6.895	68.948	704.3	51.71	27.73	1

*Specifications are subject to change without notice.
Specifications of VF-5200, please see page02.



Air Velocity / Flow / Differential Manometer

VF-5200 series (2) Pitot Tube measures Air Velocity/Flow

Specifications of VF-5200 series ※Area : Pipeline Cross - sectional area.

Model No.	VF-5204 / VF-5204 ⁺	VF-5205 / VF-5205 ⁺
Measuring Range	Please refer the previous page1.	
Resolution	Area : 00.01ft ² /0.001m ² * Air Flow : 1CFM/1CMM Temperature : 0.1°C (0.1°F) Air Velocity : 0.1m/s, 1FPM, 0.01Km/h, 0.01Knots, 0.01MPH Differential Pressure : 1Pa, ±0.0001PSI, ±0.01mbar, 0.0001bar, 0.01mmH ₂ O, 0.001inH ₂ O, 0.001mmHg, 0.0001inHg	Area : 00.01ft ² /0.001m ² * Air Flow : 1CFM/1CMM Temperature : 0.1°C (0.1°F) Air Velocity : 0.1m/s, 1FPM, 0.1Km/h, 0.1Knots, 0.1MPH Differential Pressure : 10Pa, ±0.001PSI, ±0.1mbar, 0.001bar, 1mmH ₂ O, 0.1inH ₂ O, 0.1mmHg, 0.001inHg
Accuracy (at 25°C)	±0.25% F.S, TEB<1% *TEB : Total Error Band	
Area Setting *	Max. 9.289m ² / 99.99ft ² (For Air Flow measurement) *Area : Pipeline Cross - sectional area.	
Measurement Unit	Pipeline Cross - sectional area : ft ² , m ² Temperature : °C, °F Air Flow : CFM, CMM (VF-5204 ⁺ / VF-5205 ⁺) Air Velocity : m/s, FPM(ft/min), Km/h, Knots, MPH (VF-5204 ⁺ / VF-5205 ⁺) Differential Pressure : Pa, PSI, mbar, bar, mmH ₂ O, inH ₂ O, mmHg, inHg	
Media Compatibility	Dry air or non-corrosive gases and liquids	
Display Functions	Digital LCD display : Differential Pressure, Air Velocity, Air Flow, Temp., Measurement Unit	
Sampling Rate	Approx. 0.5 sec.	
Output Signal	Digital Output : RS-232 / Modbus RTU protocol (Differential Pressure, Air Flow, Air Velocity, Temp., Max., Min., Avg. simultaneously)	
Temp. compensation	0~+60°C (+32°F ~ +140°F) Auto.	
Main Functions	IP65 water and dust proof, Air Flow/Air Velocity/Wind Pressure measurements, Fine ZERO & SPAN adjustments, ZERO setting, Max./Min./Avg. values, Data hold, Switchable°C/°F, USB/RS-232 output, LED back-light, Auto/Manual shutdown, Fine Area adjustment	
Baud Rate	57600	
Operating Environment	-10 ~ +60°C (+14 ~ 140°F), 0~95%RH non-condensing	
Power Supply	One 9 V battery or AC Adaptor (option)	
Dimensions / Weight	150(L) × 75(W) × 28(D)mm (5.91 × 2.96 × 1.11 inches), Not including the pressure hose connector Approx. 250g (battery included)	
Approvals	RoHS, CE, IP65	
Standard Accessories	Instrument (VF-5204 or VF-5205), Battery, Pouch case, Operation manual	
*Plus Accessories	Instrument (VF-5204 ⁺ or VF-5205 ⁺), Pitot tube (160-12), Silicon tube (1M), Battery, Plastic carrying case, Operation manual	

*Specifications are subject to change without notice.

Option Accessories

- ① VF-P0808 Pitot Tube (for air velocity/flow), ø8 x 300mm
*Specifications can be customized.
- ② VF-S0552 Silicon Tube (red/blue), standard 1M
*The length can be specified.
- ③ VF-C0553 Plastic carrying case
- ④ RS-232 Interface cable
- ⑤ AC Adaptor TU-6019 (AC100V±10%) / TU-6029 (AC220V±10%)

