

METRAVI PRO®

PRO AFM-1 PITOT TUBE ANEMOMETER

PRODUCT INTRODUCTION

The Metravi Pro AFM-1 Pitot Tube Anemometer is a versatile instrument designed to measure Air Velocity and Airflow in tight or hard-to-reach spaces using a Pitot Tube - to help measure where traditional vane anemometers can't reach.

It features simultaneous display of Pressure, Airflow/Velocity, and Temperature, along with a wide Pressure range (± 0.7252 psi), selectable units, Data Logging, USB connectivity, and a large backlit LCD for easy reading.

Ideal for HVAC diagnostics and airflow analysis, it's packed with smart functions including area calculation, Max/Min/Avg. recording, and software support, making it a reliable choice for professionals.

FEATURES

- Large LCD display with backlight
- Relative time clock on MAX MIN and AVG provides a time reference for measurement
- Pressure, Velocity or Air Flow Measurement with Zero Adjustment
- Displays Pressure, Air Velocity or Air Flow with Environment Temperature simultaneously
- Easy to Calculate the area of a rectangular or circular duct
- 99 sets of Data Logging
- USB interface, USB to UART Bridge Controller
- Low battery Indication, and Auto Power-off Mode (sleep mode) time increases

GENERAL SPECIFICATIONS

Operating Conditions	0 to 50°C
Storage Conditions	-10 to 60°C
Power Supply	1X 9V Battery
Low Battery Indicator	Yes
Dimensions	203mmx75mmx50mm
Relative Humidity	Non condensing (<10°C) 90% RH (10°C to 30°C)75% RH (30°C to 40°C)45% RH (40°C to 50°C)(Without Condensation)



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TECHNICAL SPECIFICATIONS

Manometer Specification

Accuracy	±0.3% FSO(25°C)		
Repeatability	±0.2% (Max. +/-0.5% FSO)		
Linearity/Hysteresis	±0.29% FSO		
Pressure Range	5000 Pa		
Maximum Pressure	10psi		
Response Time	0.5 Seconds typical		
Over range Indicator	Err.1		
Under range Indicator	Err.2		
	Units	Range	Resolution
	PSI	0.7252	0.0001
	Mbar	50.00	0.01
	inH2O	20.07	0.01
	mmH2O	509.8	0.1
	Pa	5000	1

1psi*27.68=inH2O

1psi*68.947=mbar

1psi*703.072=1*mmH2O

1psi*6894.6=Pa

FSO: Full Scale Output



Anemometer Specifications

Range of Air Velocity

Air Velocity	Range	Resolution	Accuracy
m/s(meter per second)	1.00-80.00	0.01	±2.5% of reading at 10.00 m/s accuracy is function of velocity and duct size
ft/min(feet per minute)	200-15733	1	
km/h(kilometers per hour)	3.6-288.0	0.1	
MPH(miles per hour)	2.24-178.66	0.01	
Knots(nautical miles per hour)	2.0-154.6	0.1	

Range of Air Flow

Air Flow	Range	Resolution
CFM	0-99.999ft³/min	0.0001 to 100
CMM	0-99.999m³/min	0.001 to 100

CFM(ft³/min) =Air Velocity (ft/min) x Area (ft²)

CMM(m³/min)=Air Velocity (m/s) x Area (m²) x 60

CFM: cubic feet per minute

CMM: cubic meters per minute

Range of Temperature

	Range	Resolution	Accuracy
°C	0 to 50.0°C	0.1	±1.0°C
°F	32.0 to 22.0°F	0.1	±2.0°F



*Images and Specifications are subject to change without prior notice

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