

TECHNICAL DATA SHEET

AirFlow

The innovative AF200 sets new standards of performance and value for precision air velocity instruments. The pitot tube method of measurement employed by the AF200 is suitable over the range 1.5m/s to 58m/s and from -10°C to +50°C.

The instrument also functions as a stand alone micromanometer or temperature meter for true user versatility.

Method of operation

The pitot tube method looks at the differential pressure between the total pressure entering the tube and the static pressure entering a lateral hole in the tube. The dynamic pressure measurement that results is analysed and indicated as a velocity on the display.

The Kit

A Full kit is available to accompany the AF200. This includes a 295mm/12" pitot tube, air temperature probe, instruments protective cover sling, quick fit pressure connectors, rubber tubing, nylon tubing and 9V PP3 battery. All this fits into a custom carrying case.

Key Features

- ✓ Velocity, temperature and pressure measurement
- ✓ Multi-point averaging
- ✓ Smoothing
- ✓ Correction mode for temperature, pressure and K factor
- ✓ Easy zero adjust
- ✓ Measurements in both imperial and metric units
- ✓ Last configuration memorised
- ✓ Simplicity and reliability
- ✓ Optional protective cover over sling
- ✓ Will work with most pitot tubes available
- ✓ Metric and imperial measurements

Applications

- ✓ Checking and installing air conditioning
- ✓ Differential pressure in clean rooms
- ✓ Checking fume cupboards
- ✓ Ventilation systems
- ✓ Air balancing systems
- ✓ Wind tunnels
- ✓ Extraction efficiency in shafts



Specification

Measurement Ranges

	Unit	Range	Unit	Range
m/s		1.5 to 58.0	mbar	0.00 to 19.99
ft/min		300 to 9999	inH2O	0.000 to 8.029
°C		-60 to +590	mmH2O	0.0 to 203.9
°F		-76 to +1094	Pa	0 to 2000
hPA		0.00 to 20.00		

Correction Ranges

Value	Display Symbol	Unit	Settable in Range
Air Temperature	CORR °C	Celcius	-10°C to +50°C
Static Pressure	CORR mbar	mbar (Absolute)	500 to 1500
Pilot Tube Cal Factor	CORR k	(factor)	0.10 to 3.00

Instrument Accuracies

Measurement	Ambient Temperature	Specification
Pressure	+15°C to +25°C / +59°F to +77°F	±0.2% Reading ±1 digit
	-10°C to +50°C / +14°F to +122°F	± 0.3% Reading ±1 digit
Temperature	-10°C to +50°C / +14°F to +122°F	±0.1% Reading ±1 °C / ±2°F
Velocity	+15°C to +25°C / +59°F to +77°F	±0.2m/s at 10m/s to 58m/s, ±40ft/min, 2000 to 9999ft/min
	+15°C to +25°C / +59°F to +77°F	±0.3m/s at 4m/s, ±60 ft/min at 800 ft/min

AF200