



AF200

Precision air velocity instruments

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.

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



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 295mm/12" and /or 448mm/18" pitot tubes, 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.

AF200 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 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

Specification

Operating Temperature	-10°C to +50°C / +14°F to +122°F
Battery Type	9V PP3S or equivalent
Battery Life	Long battery life
Display	12.7mm / 0.5" custom LCD with automatic legend display
Low Battery Warning	"BAT" shows on display
Auto Power Off	5 minutes approx., disabled during correction and averaging modes
Connections	Push-fit plastic tubing, 6mm/0.236" O.D., 4mm / 0.157" I.D.
Dimensions	140 x 70 x 26mm / 5.5 x 2.8 x 1.0"
Weight	250g / 8.8 oz

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