



PS-AF42

Temperature, Humidity, Barometric Pressure & Data Logging ANEMOMETER & AIR FLOW METER

The PS-AF42 is a state of the art Air Flow Tracker, Indoor-Outdoor Weather Meter and Data Logger.

It is a totally sealed and weatherproof unit designed to provide professionals years of service. Simply enter the size and shape of a duct and the PS-AF42 displays the air flow. This eliminates errors and time consuming calculations.

The Temperature, Humidity and Barometric sensors, when combined with the Wind Speed, display the wind chill, heat index, wet Bulb Temperature, as well as Dew point, Humidity Ratio, Altitude, Density Altitude.



MEASUREMENTS

- Air Velocity
- Volume Air Flow
- Temperature
- Wet Bulb Temp
- Relative Humidity
- Humidity Ratio
- Dew Point
- Heat Stress
- Wind Chill
- Humidity
- Barometric Pressure
- Altitude
- Density Altitude
- Data Logger

Features
Air Flow: Simple to use, just enter the shape and dimensions of ducts
Wind Speed in m/s, km/h, kt, mph, fpm, Beaufort
High Accuracy Humidity, Temperature & Barometric Sensors
Wide Temperature Range (Selectable °C or °F)
Wet Bulb Temperature
Relative Humidity, Humidity Ratio & Dew Point
Barometric Pressure, Altitude, Density Altitude
Measurement Statistics (Min, Max, Average)
Data Logger with Date & Time Stamp
Direct Entry Snapshot
Menu in English, French, German, Italian, Spanish
Optical Data Output
Uses AAA Batteries

Specifications	
Mechanical:	
Shape:	Rounded Parallelepiped
Dimensions: (LWD)	127X45X28mm (5X1.8X1.1 inches)
Body Materials:	ABS
Body Finish:	Orange, ABS
Weight:	102 g (3.6 oz) including batteries
Electrical:	
Wind Speed (Air Velocity, m/s, ft/min, km/h, mph, knots, Beaufort)	1.0 to 218.0 km/h (0.8 to 135.0 mph)
Air Flow (CFM, m3/h, m3/m, m3/s, L/s) (Select Duct shape and size)	0.0 to 9,999.90 m3/s (0 to 99,999 cfm)
Relative Humidity (%RH)	0.0 to 100%
Humidity Ratio	0.00 to 720.0 g/kg (0.000 to 5000.0 gpp)
Wind Chill	0.4 to 60.0 m/s, -45.0 to 125.0 °C 0.7 to 135.0 MPH, -49.0 to 257.0 °F
Heat Index	0.0 to 100.0 %RH, -45.0 to 125.0 °C 0.0 to 100.0 %RH, -49.0 to 257.0 °F
Dewpoint	0.0 to 100.0 %RH, -45.0 to 125.0 °C 0.0 to 100.0 %RH, -49.0 to 257.0 °F
Temperature Measurement Range	-45 to 125 °C (-49 to 257 °F)
Operating Temperature Range	-10 to 55 °C (14 to 131 °F)
Pressure	300.00 to 1100.00 hPa/mb (8.86 to 32.48 inHg)
Altitude	-2km to 9km (-6000 to 30000ft)
Density Altitude	-45.0 to 125.0 °C, 0.0 to 100.0 %RH, 300.0 to 1100.0 hPa (-49.0 to 257.0 °F, 0.0 to 100.0 %RH, 8.86 to 32.48 inHg)
Wet Bulb Temperature 0 to 100%RH 300 to 1100 hPa (8.86 to 32.48 inHg)	-45 to 125 °C (-49 to 257 °F)
Controls:	8 Total: ON/OFF, ▲▼ Select measurement Buttons, ◀▶ Select view Buttons, Store Data, Enter, Backlight ON/OFF
Math Functions	Min, Max, Average
Data logger (Automatic & Manual)	1600 points, storage interval 2s to 12hrs Time stamped.
Data Upload	With optional IrDA communication link, RS232/USB
Display	LCD with Aviation Green Backlight
Languages	English, French, German, Italian, Spanish
Battery Type:	AAA, two each
Run Time:	400 hrs Depending on Backlight use.
Auto Shutdown	15 or 60 min

Applications

- HVAC
- Refrigeration
- IAQ
- HACCP
- Marine
- Weather Monitoring
- Construction
(Wind, Heat Index, Wind Chill)
- Cranes & Concrete Pumps
(Wind Hazard, Wind Chill)
- Poultry Farms
- Nurseries
- Agriculture
- Forestry
- Fire Fighting
- Emergency Response
- Homeland Security
(Bio-Chemical-Nuclear)

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