

TECHNICAL DATA



Features

- Measures air velocity (fpm, m/s, kph, mph and knots) and air temperature
- Contact temperature measurement with type J/K thermocouple option
- Thermistor sensor for fast air temperature readings
- Low friction ball-bearing, rotating vane probe ensures high accuracy readings
- Real-time data logger with integral SD memory card
- User selectable sampling rate from 1 to 3600 seconds
- Large, easy-to-read backlit LCD display
- Data hold and Min/Max functions
- Optional PC software features live tracking via USB connection
- Tripod mount on probe and instrument for long-term monitoring
- Low battery indicator and auto shut off
- Includes vane probe, hard carrying case, and batteries

Specifications

Type:	Vane
Measuring Ranges:	fpm: 79 to 6890 m/s: 0.4 to 30 km/h: 1.4 to 126 mph: 0.9 to 78.3 knots: 0.8 to 68 knots Air Temp.: 32 to 122°F (0 to 50°C) Type K Temp.: -148.0 to 2372.0°F (-100.0 to 1300°C) Type J Temp.: -148.0 to 2192.0°F (-100.0 to 1200°C)
Accuracy:	Air Velocity: $\pm(2\% \text{ rdg} + 40 \text{ fpm}, 0.2 \text{ m/s}, 0.8 \text{ km/h}, 0.4 \text{ mph}, 0.4 \text{ knot})$ Air Temp.: $\pm 0.8^\circ\text{C}$ (1.5°F) Temp.: $\pm(0.4\% + 0.5^\circ\text{C}$ (1°F))
Resolution:	fpm: 1 m/s, km/h, mph, knot: 0.1 Temp.: $0.1^\circ\text{F}/^\circ\text{C}$
Vane Diameter:	2.8" (72mm)
Response Time:	<1 sec.
Display:	5-digit, Dual LCD Display
Backlit Display:	Yes
Data Hold:	Yes
Min:	Yes
Max:	Yes
Datalogging Capabilities:	Yes
Real-Time Clock and Date Stamp:	Yes
Sampling Rate:	Yes (1, 2, 5, 10, 30, 60, 120, 300, 600, 1800, 3600s)
External Memory:	Yes, expandable up to 16Gb with SD card (optional)

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Auto Shut-off:	Yes (after 10 mins/off)
Kick Stand:	Yes
Tripod Mountable:	Yes
Low Battery Indicator:	Yes
Power Supply:	6 x AA batteries or AC Adapter (optional)
Output:	Yes (AC)
PC Connectivity:	USB Cable (optional)
Software:	SW-U801-WIN Software (optional)
Software OS Compatibility:	Windows XP / Vista / 7
Product Certifications:	CE
Operating Temperature:	32 to 122°F (0 to 50°C)
Storage Temperature:	14 to 140°F (-10 to 60°C)
Operating Humidity:	10-80%
Dimensions:	8 x 3 x 1.5" (203 x 76 x 38mm)
Weight:	1.13lb (515g)

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Model	Description
SD-4207	Vane Thermo-Anemometer
R4000SD-PROBE	Replacement Probe for SD-4207
SD-4GB	4GB SD Memory Card
TP-01	Type K Thermocouple Wire Probe
R2920	Surface Thermocouple Probe
R2930	Right Angle Thermocouple Surface Probe
R2940	Air/Gas Thermocouple Probe
R2950	Immersion Thermocouple Probe
R2960	Needle Tip Thermocouple Probe
SW-U801-WIN	Data Acquisition Software
USB-01	USB Cable
AP-9VA-110V	AC Adapter
R1500	Lightweight Tripod
CA-05A	Soft Carrying Case
SD-4207-NIST	Vane Thermo-Anemometer & NIST