

Anemometer / Manometer Model R3001



TECHNICAL DATA

Features

- Dual LCD simultaneously displays pressure, air velocity or airflow with temperature
- Max, Min, Avg, Relative and Data hold functions
- Integrated real-time clock time-stamps measurements
- · Large, easy-to-read backlit LCD display
- Zero button for offset correction or measurement
- User selectable unit of measure
- Push button calculation of rectangular or circular duct areas
- USB interface and software included
- Tripod mount for long-term monitoring
- · Low battery indicator and auto shut off
- Includes black and white silica tubes, pitot tube, USB cable, software, battery, and hard carrying case

Specifications

Air Velocity, Air Volume and Temperature

Measuring Ranges: 1 to 80 m/s; 200 to 15,733 fpm;

3.6 to 288 km/h; 2.24 to

178.66 mph; 2.0 to 154.6 knots

Air Volume: O to 99,999 (CFM/CMM)

32 to 122°F (O to 50°C) Temperature:

Accuracy: ±2.5% rdg. Air Volume: ±1% FS ±1.5°C (3°F) Temperature:

Resolution: 0.01 m/s; 1 fpm; 0.1 km/h;

0.01 mph; 0.1 knots;

0.001 CFM/CMM; 0.1°F/°C

Pressure

Measuring Ranges: ±5000 Pa; 0.752 psi;

50.00mbar; 20.07 inH₂0;

509.8 mmH₂0

Accuracy: ±0.3% FS

Resolution: 1 Pa; 0.1 mmH₂0;

 $0.01 \text{ mbar } / \text{ in} \bar{H}_{a}0; 0.0001 \text{ psi}$

±0.29% FS Linearity/Hysteresis:

±0.2% FS Repeatability: Max Pressure: 10 psi



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General Specifications

Display: 5-digit, Dual LCD Display

Backlit Display: Data Hold: Yes Min: Yes Max: Yes Average: Yes Differential Pressure: Yes Zero Function: Yes Over range Indicator: Yes Under range Indicator: Yes

Air Volume Calculation

(CFM/CMM): Yes
Datalogging Capabilities: Yes
Real-Time Clock and Date Stamp: Yes

Response Time: 2 times/sec.

Internal Memory: Yes

Auto Shut-off: Yes (after 20 mins)

Tripod Mountable: Yes
Low Battery Indicator: Yes

Power Supply: 9V battery

PC Connectivity: USB Cable (Included)

Software: Yes (included)

Software OS Compatibility: Windows XP, 7, 8, 10, 11

Product Certifications: C

Operating Temperature: 32 to 122°F (O to 50°C) Storage Temperature: 14 to 140°F (-10 to 60°C)

Operating Humidity: 10-80%

Dimensions: 8.2 x 2.9 x 1.9" (210 x 75 x 50mm)

Weight: 12 oz (340g)



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Model	Description
R3001	Anemometer/Manometer
R1500	Lightweight Tripod
R3001-NIST	Anemometer/Manometer & NIST