



DA430™

Hygro-Thermometer Anemometer



- ✓ High accuracy - $\pm 1.0\%$ of reading of airflow
- ✓ Rugged metal probe and vane
- ✓ Intuitive user interface design
- ✓ Ultra low speed sensitivity down to 40 ft/min
- ✓ Measure relative humidity (%RH) from 5.0 to 95% RH
- ✓ Measure airflow in extreme environments from -20° to 100°C
- ✓ Temp measurements from -20° to 80°C standard
- ✓ Optional Temp probes providing measurement from -100° to 600°C
- ✓ Minimum and Maximum air speed and temp
- ✓ Analog voltage output and Communication options
- ✓ Low power, high performance, RISC microprocessor

The Pacer DA430 Rotating Vane Hygro-Thermometer Anemometer is a high quality instrument providing highly accurate humidity, air velocity, and temperature measurements in harsh environments via a user-friendly & intuitive interface. Applications include manufacturing, laboratory, computer rooms, environmental control, flow hood monitoring, and other applications where precise air measurement is required.

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SPECIFICATIONS

Ranges

Air Probe AP275: 40 to 7800 FPM (feet per minute)
0.2 to 40.00 MPS (meters per second)

Air Probe AP100: 60 to 6800 FPM
0.3 to 35.00 MPS

Relative Humidity (%RH)
5.0 to 95.0 %RH

Temperature (using standard combination HTP202 probe):
-4° to 176°F (-20° to 80°C)

Temperature (using optional RTD temperature probe):
-148° to 1112°F (-100° to 600°C)

Accuracy

Air Velocity: ±1.0% of Reading ±1 digit
Temperature: ±(0.3°C + 0.2% of reading in °C)
temperature accuracy examples: ±0.3°C at 20°C
±0.5°F at 68°F

Relative Humidity: ±2.0 %RH

Resolution

Air Velocity: 1 FPM or 0.01 MPS
Temperature: 0.1°F or °C (1°F below -99.9°F)
Relative Humidity: 0.1 %RH

Response Time

Relative Humidity: Up to 90% of change in measured value in 15 seconds
Temperature: Approx. 60 sec in still air
Approx. 10 sec in moving air streams

Display

0.5" LCD, 4 digits, with LED backlight

Operating Temp

Instrument: 32° to 125°F / 0° to 50°C
Air Probe: -4° to 212°F / -20° to 100°C
HTP202 Probe: -4° to 176°F / -20° to 80°C

Power Supply

3 AA alkaline batteries

Battery Life

Approximately 150 hours

Dimensions

Instrument: 6.5 inch X 3.25 inch X 1.5 inch
Probe AP275: 2.75 inch diameter
Probe AP100: 1 inch diameter
RH/Temp probe: 6 inch x 1 inch diameter

Instrument Options Available

- Protective Rubber Boot and Splash-Proof Seal
- USB communications
- RS232 communications
- Analog 0-5 Volt output
- Additional Probe PN AP100 or AP275
- Extra extension and/or flexible rods
- Custom cable lengths
- Immersion RTD temperature probe
- Surface RTD temperature probe
- Air RTD temperature probe

DA430 comes complete with

- 1 pc. rotating vane probe head, AP275 or AP100
- 1 pc. HTP202 combination RH / temp probe
- 3 pc. extension rod w/ handle grip
- 1 pc. flexible rod
- 1 pc. 5' connecting cable
note: cable attached to AP100 probe
- 3 pc. AA 1.5 V alkaline batteries
- 1 pc. carrying case



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