



# DA430<sup>TM</sup>

## Hygro-Thermometer Anemometer



- ✓ High accuracy -  $\pm 1.0\%$  + 1 digit of reading of airflow
- ✓ Rugged metal probe and vane
- ✓ Intuitive user interface design
- ✓ Ultra low speed sensitivity down to 50 ft/min
- ✓ Measure relative humidity (%RH) from 5.0 to 95% RH
- ✓ Measure airflow in extreme environments from  $-20^{\circ}$  to  $100^{\circ}\text{C}$
- ✓ Temp measurements from  $-20^{\circ}$  to  $80^{\circ}\text{C}$  standard
- ✓ Optional Temp probes providing measurement from  $-100^{\circ}$  to  $600^{\circ}\text{C}$
- ✓ Minimum and Maximum air speed and temp
- ✓ Analog voltage output and USB or RS232 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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# DA430™

## Hygro-Thermometer Anemometer

### SPECIFICATIONS

#### Ranges

Air Probe APT275: 50 to 7800 FPM (feet per minute)  
0.25 to 40.00 MPS (meters per second)

Air Probe APT100: 300 to 6890 FPM  
1.5 to 34.50 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:  
2.75" Probes: ±1.0% of Reading ±1 digit  
1.00" Probes: ±0.50% F.S. + 0.75% 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 or RS232 communications
- Analog 0-5 Volt output
- Additional Probe PN AP100 or AP275
- Extra extension and/or flexible rods
- Custom cable lengths
- Immersion and Penetration RTD temperature probes
- 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. 10" extension rod w/ handle grip
- 1 pc. 10" 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 and manual
- NIST-Traceable Calibration Certificate



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