

AIR VELOCITY METER 4-IN-1

ANEMOMETER, HYGROMETER, LIGHT METER, THERMOMETER

HHF81
\$159



- ✓ Simultaneous Readings of Air Velocity and Temperature or Humidity and Temperature
- ✓ Exclusive Photo Diode and Color Correction Filter Light Sensor, Spectrum Meets C.I.E. Photopic
- ✓ Standard Type K Thermocouple SMP Input Jack Suitable for All Types of K Probes
- ✓ Lux/Feet-Candle Selectable by Pressing Button on the Front Panel

The HHF81 anemometer can measure air flow, humidity, temperature and light. The built-in microprocessor circuit assures excellent performance and accuracy. The HHF81 can track the maximum and minimum values along with current readings. The HHF81 displays the flowrate in your choice of knots, meters per second, kilometers per hour, miles per hour, feet per minute.

The HHF81 relies upon a low-friction ball bearing mounted wheel design to provide high accuracy at high and low air velocity. The impeller provides excellent accuracy (± 3 to 4%) and the ability to measure the slightest breeze (0.3 M/S). For temperature readings, the HHF81 has an internal thermistor or is compatible with any Type K thermocouple with SMP Male connector, accurate to $\pm 1^\circ\text{C} + 1\%$ of reading. The humidity sensor measures to 95% relative using a high precision thin-film capacitance sensor with fast response to humidity changes. The Light measurement utilizes an exclusive photo diode and color correction filter light sensor.

SPECIFICATIONS

Air Velocity

Measurement Range: 80 to 5910 ft/min, 0.4 to 30.0 m/s, 0.9 to 67.0 mph, 1.4 to 108.0 km/hr, 0.8 to 58.3 knots, 0.8 to 58.3 knots
Resolution: 1 ft/min, 0.1 m/s, 0.1 mph, 0.1 km/hr, 0.1 knots



HHF81, \$159, shown smaller than actual size.

KTSS-HH, \$29, not included, shown smaller than actual size.

Accuracy: ≤ 20 m/s: 3% FS, >20 m/s: 4% FS

Temperature (Internal Thermistor)

Measurement Range: 0 to 50°C (32 to 122°F)

Resolution: $0.1^\circ\text{C}/^\circ\text{F}$

Accuracy: $\pm 1.2^\circ\text{C}$ ($\pm 2.5^\circ\text{F}$)

Operational Temperature: 0 to 50°C (32 to 122°F)

Temperature (External Type K)

Measurement Range: -100 to 1300°C (-148 to 2372°F)

Resolution: $0.1^\circ\text{F}/^\circ\text{C}$

Accuracy: $\pm(1\% + 1^\circ\text{C})$ of rdg [$\pm(1\% + 2^\circ\text{F})$ of rdg]

Humidity

Measurement Range: 10 to 95%

Resolution: 0.1%

Accuracy: $< 70\%$ RH: $\pm 4\%$ of rdg, $\geq 70\%$ RH $\pm (4\% \text{ rdg} + 1.2\% \text{ RH})$

Operational Humidity Max.: 80% RH

Light Lux

Measurement Range: 0 to 2200 Lux, 1800 to 20000 Lux, 0 to 204.0 Fc, 170 to 2000 Fc

Resolution: 1 Lux, 10 Lux, 0.1 Ft-cd, 1 Ft-cd

Accuracy: $\pm 5\%$ rdg ± 8 dgt

Overrange Display: "----"

Battery: 9V (included)

Power Consumption:

Approx. DC 6.2 mA

Weight: 160 g (0.4 lbs) battery included

Dimension: 156 x 60 x 33 mm (6.14 x 2.36 x 1.29")

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
HHF81	\$159	Air flow meter
KHSS-18E-RSC-12	34	Type K thermocouple—exposed element for air
KTSS-HH	29	Type K thermocouple—grounded element for air or liquids
SMPW-K-M	1.75	Type K SMP male connector with write on window
MN1604	3	Replacement 9V battery
CAL-3-FLOW*	225	NIST traceable 4-point calibration certificate
MS-0918	240	Reference Book: Flow Measurement for Engineers and Scientists

Comes with complete operators manual and 9V battery.
Ordering Example: HHF81, 5 digit air flow meter, \$159.



UNITED STATES

www.omega.com
1-800-TC-OMEGA
Stamford, CT.

CANADA

www.omega.ca
Laval(Quebec)
1-800-TC-OMEGA

GERMANY

www.omega.de
Deckenpfronn, Germany
0800-8266342

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More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples Thermowells and Head and Well Assemblies, Transmitters, Wire

• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters