

# HANDHELD ROTATING VANE HYGRO-THERMO ANEMOMETER

## HHF144 Series



No Points  
Standard

- ✓ Measure from 5.0 to 95% RH
- ✓ Measure Airflow in Environments from -20 to 100°C (-4 to 212°F)
- ✓ Temp Measurements in Humidity Sensor Standard
- ✓ Minimum and Maximum Air Speed and Temp
- ✓ Analog Voltage Output and Communication Options
- ✓ NIST Calibration Included

The OMEGA® HHF144 rotating vane hygro-thermo anemometer is a high quality instrument providing highly accurate humidity, air velocity, and temperature measurements in harsh environments via a user-friendly and intuitive interface. Applications include manufacturing, laboratory, computer rooms, environmental control, flow hood monitoring, and other applications where precise air measurement is required.

## SPECIFICATIONS

### Ranges:

**HHF144B:** 0.2 to 40.00 MPS  
(40 to 7800 FPM)

**HHF144A:** 1.5 to 35.00 MPS  
(300 to 6800 FPM)

**Relative Humidity:** 5.0 to 95% RH

**Temperature (Using Standard Combination Temp/Humidity Probe):**

-20 to 80°C (-4 to 176°F)

**Temperature (Using Optional Separate Temperature Probe):**

-95 to 200°C (-139 to 392°F)

### 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 @ 20°C (±0.5°F @ 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:** 12.7 mm (0.5") LCD, 4-digits,

with LED backlight

### Operating Temp

**Instrument:** 0 to 50°C (32 to 125°F)

**Air Probe:** -20 to 100°C (-4 to 212°F)

**Temp/Humidity Probe:** -20 to 80°C

(-4 to 176°F)

**Power Supply:** 3 "AA" alkaline batteries (included)

**Battery Life:** Approximately 150 hours

### Dimensions:

**Instrument:** 165 x 83 x 38 mm  
(6.5 x 3.25 x 1.5")

**HHF144A:** 25 mm (1") diameter

**HHF144B:** 70 mm (2.75") diameter

**RH/Temp Probe:** 152 x 25 mm

(6 x 1") diameter

## To Order

Model No.	Description
HHF144A	Handheld hygro-thermo anemometer with 25 mm (1") dia. probe
HHF144B	Handheld hygro-thermo anemometer with 70 mm (2 3/4") dia. probe

## Accessories

Model No.	Description
HHF140B-RP	Replacement 70 mm (2 3/4") vane probe
HHF140A-RP	Replacement 25 mm (1") vane probe and 1.5 m (5') cable
HHF144-HP	Replacement temperature/humidity probe
MN1500-4	4 "AA" replacement batteries

Comes complete with vane probe [25 or 70 mm (1 or 2 3/4") depending on model], 3 extension rods (flexible, straight and with handle), 1.5 m (5') cable, 3 "AA" alkaline batteries, hard carrying case, NIST calibration certificate and operator's manual.

For units with a protective boot add suffix "-PB" to model number, for additional cost.

For units with USB communications add suffix "-USB" to model number, for additional cost.

For units with a voltage output add suffix "-V" to model number, for additional cost.

**Ordering Examples:** HHF144B-USB, anemometer with 70 mm (2 3/4") vane, temperature input and USB communications.

HHF144A-V, anemometer with 25 mm (1") vane and a voltage output.