

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

TheTRODEX® 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 (2¾") dia. probe

Accessories

Model No.	Description
HHF140B-RP	Replacement 70 mm (2¾") 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 2¾") 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 (2¾") vane, temperature input and USB communications.

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