

HANDHELD AIR VELOCITY/ TEMPERATURE METER WITH WIRELESS OPTION

Ω OMEGA™

HHF1000 Series



- ✓ Measures Air Velocities up to 5000 FPM (25.4m/sec)
- ✓ Measures Air Temperature up to 93°C (199°F)
- ✓ 1.5% Full Scale Accuracy (Velocity)
- ✓ 0.5% Full Scale Accuracy (Temperature)
- ✓ Two Sensor Probe Configurations—Fixed Probe and Remote Telescopic Probe
- ✓ Hot Wire Air Velocity Sensor Design
- ✓ Economical 6 OD x 305 mm L (1/4 x 12") Insertion Probe Design
- ✓ Backlit LCD Displays Air Velocity and Air Temperature Simultaneously
- ✓ Air Velocity and Air Temperature Can be Displayed in Different Engineering Units
- ✓ Volume Air Flow Calculation
- ✓ Wireless PC Interface Available

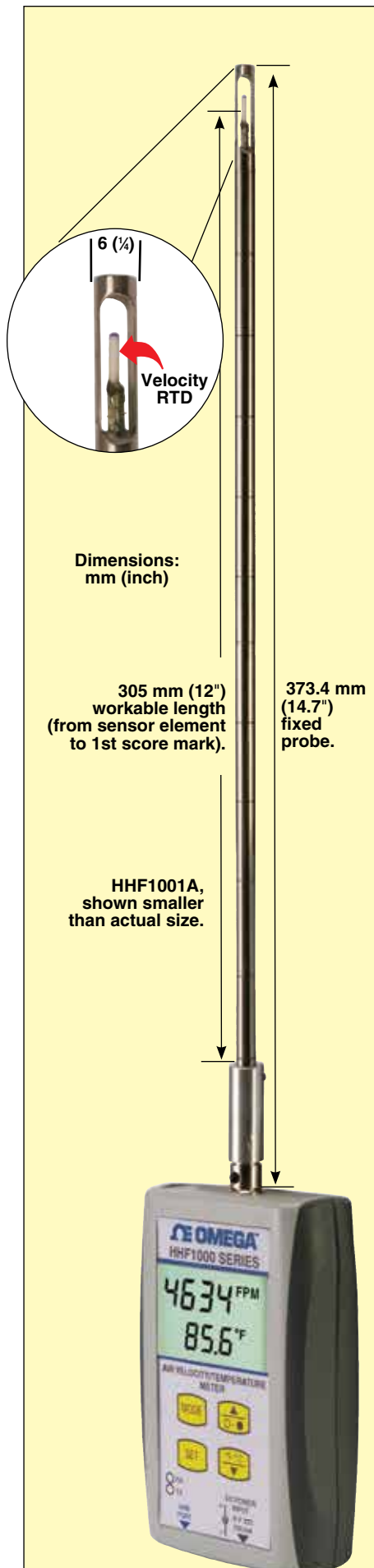


The HHF1000 Series handheld air velocity/temperature meter measures and displays air velocity and air temperature in research and development labs, HVAC applications, and other manufacturing processes. The sensor design is based on three RTD elements, one measures air temperature and the other two measures air velocity due to the

heat loss from the RTD sensor as it cools down by the air flow. The sensor probe is offered in two configurations, fixed probe and remote telescopic probe.

The HHF1000 series offers many standard features such as high and low alarm indication, USB PC serial interface with a Windows® based data logging software, adjustable display

response time, volume air flow readout, and atmospheric pressure compensation. The HHF1000 displays the air velocity in different Engineering units such as FPM, m/sec, Miles/Hour, and Km/hour. The air temperature is displayed in °F and °C.



SPECIFICATIONS

Air Velocity Range: 0 to 5000 FPM
(0 to 25 m/sec)

Air Temperature Range: -40 to 93°C
(-40 to 199°F)

Accuracy: 1.5% full scale (air velocity),
0.5% full scale (air temperature)

Air Velocity/Temperature Probe:

Fixed Probe: 1/4" OD stainless steel,
305 mm (12") long (workable length)

Remote Telescopic Probe:

Adjustable from 305 x 914 mm L
(12 to 36")

Air Velocity/Temperature Sensor:

Three RTDs, one 100 Ω and two 1000 Ω

Display: Backlit LCD, 32 x 51 mm
(1.25 x 2")

Operating Ambient Temperature:

Sensor Probe: -40 to 93°C
(-40 to 199°F)

Electronic Case: 0 to 50°C
(32 to 122°F)

Power: 9V Lithium battery (included) or
9 Vdc adaptor

Battery Life:

40 hours, continuous operation

Dimensions (Case):

121.4 L x 77.7 W x 33.2 mm D
(4.78 x 3.06 x 1.31")

Dimensions (Probe):

Fixed Probe: 6 x 305 mm
(0.25 OD x 12" L)

Remote Telescopic Probe:

Adjustable from 305 to 914 mm L
(12 to 36")

Weight: 300 g (0.66 lb)



Measuring air flow from an air conditioning duct.

Wireless PC Interface

RF Transmitter Carrier: ISM 2.4 GHz,
direct sequence spread spectrum,
license free world wide

RF Power Output: 10 dBm (10 mW)

RF Range:

Indoor/Urban: Up to 40 m (130')

Outdoor/Line of Sight: Up to 120 m
(400')

To Order

Model No.	Range FPM (m/sec)	Description
HHF1001A*	0 to 5000 (0 to 25.4)	Air velocity/temperature meter, fixed probe
HHF1001R*	0 to 5000 (0 to 25.4)	Air velocity/temperature meter, remote telescopic probe
HHF1001A-W*	0 to 5000 (0 to 25.4)	Air velocity/temperature meter, fixed probe, wireless
HHF1001R-W*	0 to 5000 (0 to 25.5)	Air velocity/temperature meter, remote telescopic probe, wireless

Accessories

Model No.	Description
UWTC-REC1	48 channel wireless receiver
UNIV-AC-100/240	Universal 9 Vdc adaptor, 100 to 240 Vac input
SSLK-14-14	Compression fitting
T-FER-1/4	1/4" PTFE ferrules (10 pack) for use with SSLK-14 -14 compression fitting

Comes complete with 305 mm (12") long sensor probe (or remote telescopic probe), 9V lithium battery, USB cable, Windows based data logging software, and operator's manual.

Note: UWTC-REC1 wireless receiver is required for wireless PC interface. Because of transmission frequency regulations, this product may only be used in the United States, Canada and Europe.

* Add "-CAL-3" for NIST traceable 4-point calibration certificate and additional cost to the price.

Ordering Examples: HHF1001A-W, wireless air velocity/temperature meter, 0 to 5000 FPM range, fixed probe, and UWTC-REC1 wireless receiver.

HHF1001A-CAL-3, air velocity/temperature meter with NIST traceable 4-point calibration certificate.