Handheld for Temperature, Humidity and Flow
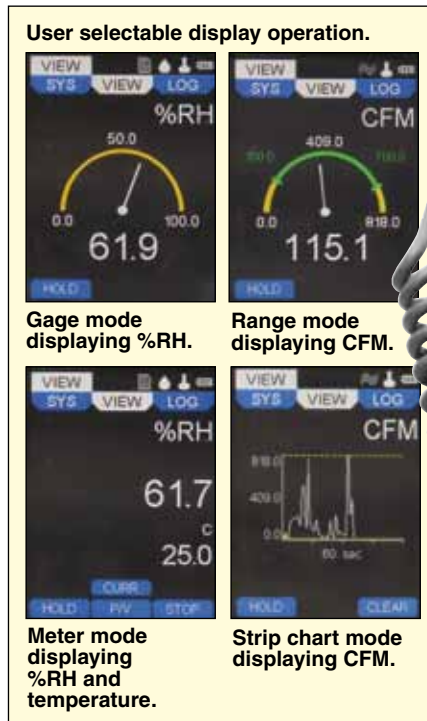
HH-USD

1 YEAR WARRANTY C E RoHS

✔ **Large Color OLED Display**
✔ **USB Interface**
✔ **Modular Design**
✔ **Relative Humidity and Temperature Probe**
✔ **Air Velocity and Temperature Probe**
✔ **Data Logger**
✔ **Wireless Probe Options**
✔ **Interchangeable Probes with Automatic Instrument Recognition**
✔ **LED Status Light**
✔ **SD Memory Card Data Storage**
✔ **5 Languages Standard (English, German, Spanish, Italian, Portuguese)**

User selectable display operation.

Gage mode displaying %RH.

Range mode displaying CFM.

Meter mode displaying %RH and temperature.

Strip chart mode displaying CFM.

HH-USD shown smaller than actual size.

The HH-USD universal handheld test instrument is a highly versatile meter that offers the utmost flexibility and ease of user operation by having the capacity to work with a variety of compatible sensing modules and probes. Additional wired and wireless probes or modules are instantly recognized by the HH-USD without any user reprogramming or alteration, allowing seamless sensor addition, upgrade or replacement.

The HH-USD offers a slew of features that enable a user to quickly set-up and intuitively navigate through their daily activities.

Data is stored via the internal memory or separate SD card in various auto or manual logging operations. Logged files can be quickly transferred to a device through a USB cable or by a portable SD card. The bright OLED display can operate in standard numerical meter mode, gage mode with analog needle,

gage mode with additional pass/fail operation zones, and strip chart mode which enables a simplified visual tracking of the process.

The four directional buttons, combined with the three soft key buttons aligning to corresponding screen functions, allow for quick navigation through the four main operation menus.

The rugged plastic case with protective thermo-plastic over-mold, along with the dust-shielding rubber caps, permit the unit to handle abuse and properly withstand dusty environments.

The base HH-USD includes an integral molded compartment that securely holds wireless modules. The storage compartment offers convenient transportation of a module with the base instrument during testing. A flexible hand strap included with every HH-USD provides means for the base handheld to be safely connected to a belt, pipe, ladder or

similar structure freeing the user's hands to focus on the sampling test. A 6-pin connector enables one wired probe at a time to be plugged in to the base instrument without worry of becoming disconnected during sampling. The rechargeable battery via the included USB cable provides long term operation to last through several days work.

At just under 283 g (10 oz), the compact HH-USD base is lightweight. Included with the HH-USD is a soft carrying case which secures the provided accessories and added test probe.

Specifications

Languages: English, German, Spanish, Italian, Portuguese

Display: OLED (organic LED), color 240 x 320

Temperature Limits: -15 to 51°C (5 to 125°F)

Note: When using wireless function: -6 to 51°C (20 to 125°F)

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Battery Charging Limits: 0 to 45°C (32 to 113°F)

Resolution: 1 FPM, 0.1 MPS, 0.1 CFM and M3/HR; 0.1°F and °C; RH 0.1%

Units Air Velocity: FPM, MPH, KN, M/H, M/S K/H, FPS

Units Flow: CFM, M3/HR, M3/S, GPM, GPH, GPD, LPS, LPM, LPH

Units Temperature: °F, °C

Housing: Thermoplastic elastomer over polycarbonate

Power Requirements: Rechargeable lithium ion polymer via USB

Maximum Wireless Distance: 15 m (50')

Weight: 283 g (10 oz)

Thermo-Hygrometer Probe Specifications

Service: Humidity, temperature, wet bulb and dew point temperature detection in clean air

Temperature Limits:
  Process: -40 to 80°C (-40 to 176°F)
  Ambient: -15 to 51°C (5 to 125°F)

Range Relative Humidity: 0 to 100% (non-condensing)

Accuracy Relative Humidity: ±2% FS over 10 to 90% @ 25°C (77°F)

Range Temperature: -28 to 60°C (-20 to 140°F)

Accuracy Temperature: ±0.3°C @ 25°C (±0.9°F @ 72°F)

Handle Enclosure: Thermoplastic elastomer over polycarbonate

Probe Length: 203 mm (8") insertion

Cable Length: 71 cm (28") retracted, 183 cm (6') extended

Supplied With: Wrist strap

Thermo-Anemometer Probe Specifications

Service: Air velocity and temperature of clean, dry air

Temperature Limits:
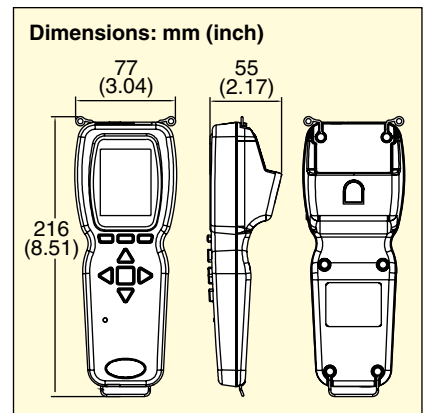 Process: -29 to 100°C (-20 to 212°F)
  Ambient: -15 to 51°C (5 to 125°F)

Range Air Velocity: 0 to 6000 FPM (0 to 30 m/s)

Accuracy Air Velocity: ±3% FS within temperature range of 4 to 32°C (40 to 90°F)

Range Volumetric Air Flow: 999,999 in selected flow units

Range Temperature: -29 to 100°C (-20 to 212°F)

Accuracy Temperature: ±0.28°C (±0.5°F)

Handle Enclosure: Thermoplastic elastomer over polycarbonate

Probe Length: 203 mm (8") insertion

Cable Length: 71 cm (28") retracted, 183 cm (6') extended

Supplied With: Wrist strap

OMEGACARE^SM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE^SM covers parts, labor and equivalent loaners.

To Order

Model No.	Description
HH-USD	Universal handheld test instrument, base unit, no probes
HH-USD-HTDW	Air quality test instrument with base unit HH-USD and HH-USD-RP1 thermo hygrometer and temperature probe; measures relative humidity, temperature, dewpoint and wet bulb temperature
HH-USD-AFT	Air quality test instrument with base unit HH-USD and HH-USD-AP1 thermo anemometer probe measures air velocity, volumetric air flow and temperature

The HH-USD comes complete with USB interface cable, charger with international adaptors, soft carrying case, hand strap, and operator's manual.

***Ordering Example: HH-USD-HTDW,** air quality test instrument with thermo hygrometer and temperature probe. **OCW-3,** OMEGACARE^SM extends standard 1-year warranty to a total of 4 years.*

Accessories (Field Installable)

Model No.	Description
HH-USD-AP1	Thermo anemometer air velocity and temperature probe with coiled cable
HH-USD-RP1	Thermo hygrometer humidity and temperature probe with coiled cable
HH-USD-AP2	Wireless thermo anemometer air velocity and temperature probe with coiled cable
HH-USD-RP2	Wireless thermo hygrometer and temperature probe with coiled cable
HH-USD-STRAP	Spare hand strap
HH-USD-ICHRG	Spare dual USB wall or auto charger with international adaptors
HH-USD-KFCC	Optional dual USB charger with North American adaptor (1.5 A)
HH-USD-CBL	Spare USB cable, 1 m (3.2')
2GB-SD	2 GB SD card
HH-USD-C1	Spare soft carrying case
HH-USD-C2	Heavy-duty hard carrying case with pre-cut foam inserts for additional sensor storage