The HHF710-1 combines relative humidity, temperature, and air velocity measurement in one highly versatile instrument. This precision instrument is ideal for air conditioning, cooling, heating, and ventilation applications. With its built-in memory, up to 1000 triple measurements (% RH, °C/°F, and FPM/MPS) can be stored, and the collected data can be transferred to a printer or PC via the RS232C interface. Additional features include three (3) simultaneous analog outputs for applications such as recorder and data logger interfacing and external RTD input.

### To Order (Specify Model Number)

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHF710-1</td>
<td>$650</td>
<td>Kit including combination instrument, humidity probe, 3 extension rods, flexible rod, extension cables, RS232C adaptor cable, analog output cable, and AC adaptor with rechargeable NICAD battery. Does not include velocity probe. Order HHF7-P1 or HHF7-P2 below.</td>
</tr>
<tr>
<td>HHF7-P1-1</td>
<td>365</td>
<td>Velocity and temperature probe, 25.4 mm (1&quot;) Dia.</td>
</tr>
<tr>
<td>HHF7-P2-1</td>
<td>373</td>
<td>Velocity and temperature probe, 69.9 mm (2.75&quot;) Dia.</td>
</tr>
<tr>
<td>HHF7-P3</td>
<td>305</td>
<td>Replacement humidity/temperature probe</td>
</tr>
<tr>
<td>HHF7-C1</td>
<td>25</td>
<td>Adaptor assembly for separate RTD probe with 3 m (1’) cable, terminates in 3-prong female mini-plug (not shown)</td>
</tr>
<tr>
<td>HHF7-C2</td>
<td>25</td>
<td>Same as HHF7-C1, with 3-prong female std. plug (not shown)</td>
</tr>
<tr>
<td>HHF7-C3</td>
<td>25</td>
<td>Same as HHF7-C1, with 2-prong female mini-plug (not shown)</td>
</tr>
<tr>
<td>HHF7-C4</td>
<td>25</td>
<td>Same as HHF7-C1, with 2-prong female std. plug (not shown)</td>
</tr>
<tr>
<td>RH70-SF</td>
<td>25</td>
<td>Sintered filter cap for humidity probe (not shown)</td>
</tr>
<tr>
<td>CAL-3-FLOW</td>
<td>225</td>
<td>NIST-traceable 4-point calibration certificate</td>
</tr>
<tr>
<td>FM-2475</td>
<td>99.95</td>
<td>Reference Book: Techniques and Topics in Flow Measurement</td>
</tr>
</tbody>
</table>

Kit includes combination instrument, humidity probe, 3 extension rods, flexible rod, extension cables, RS232C adaptor cable, analog output cable, and AC adaptor with rechargeable Nicad battery and complete operator’s manual.

**Ordering Example:** HHF710-1, air measurement kit ($650) + HHF7-P1-1, 25.4 mm (1") air velocity and temperature probe, $650 + 365 = $1015.
SPECIFICATIONS

RELATIVE HUMIDITY

Sensing Element: Thin-film capacitive type
Range: 5 to 95% RH
Accuracy: ±2.0% RH
Resolution: 0.1% RH
Temperature Drift: ±0.5% RH per 10°C/18°F
Response Time: Up to 90% of fluctuation in 15 sec.

TEMPERATURE FROM VELOCITY OR HUMIDITY PROBE

Sensing Element: RTD sensor (Pt100)
Range: Full range of humidity or velocity probe
Accuracy: ±0.2% of rdg ±0.2°C or °F
Resolution: 0.1°C or 0.2°F
Response Time: Approximately 60 sec.

AIR FLOW

Range: HHF7-P2-1: 40 to 7800 FPM, 0.20 to 40.00 MPS; HHF7-P1-1: 60 to 6800 FPM, 0.3 to 35.00 MPS
Accuracy: HHF7-P1-1: ±0.5% FS, ±1.0% rdg, ±1 lsd; HHF7-P2-1: ±0.25% FS, ±0.75% rdg, ±1 lsd
Resolution: 0.01 m/s or 1 ft/min

TEMPERATURE WITH SEPARATE RTD PROBE

Range: -73 to 300°C (-100 to 575°F)
Accuracy: ±0.2% of rdg ±0.2°C or °F
Resolution: 0.1°C or 0.2°F

GENERAL SPECIFICATIONS

Display: 1⁄2” LCD, 9999 digits
Data Acquisition: Storage capacity up to 1000 triple measurements (humidity, temperature and airflow)
Data Link: Std. RS232C, including handshake signals CTS and RTS
Baud Rate: 1200 bps std.
Analog Outputs: 3 separate simultaneous outputs, 0 to 2 V over full span; 8-bit D/A conversion
Operating Temperature: Instrument: 0 to 50°C (32 to 122°F), humidity probe: -20 to 80°C (-5 to 176°F), velocity probe: -30 to 100°C (-22 to 212°F)
Battery Check: Automatic @ 6 V
Power Supply: NiCad battery with AC adaptor with 1.5 m (5') cable (instrument can be used while re-charging)
Battery Life: 10 hours before re-charge
Dimensions: Instrument: 150 H x 81 W x 30 mm D (5.9 x 3.2 x 1.2”);
Humidity probe: 178 L x 25.4 mm dia (7 x 1”); HHF7-P2-1: 70 mm (2.75”) dia.; HHF7-P1-1: 25.4 mm (1”) dia.

HHF7-P2-1
$373
69.9 mm (2.75") diameter velocity and temperature probe
HHF7-P1-1
$365
25.4 mm (1") diameter velocity and temperature probe

Versatile instrument interfaces with recorders, printers, and PC’s via RS-232C and three analog outputs. Interface cables supplied with kit.

HHF710, $650, shown with humidity/temperature and air velocity probes attached. Shown smaller than actual size.

HHF7-P2, replacement 69.9 mm (2.75") velocity and temperature probe, $373, shown larger than actual size.

HHF7-P1, replacement 25.4 mm (1") velocity and temperature probe, $365, shown smaller than actual size.
More than 100,000 Products Available!

- **Temperature**

- **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**

- **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**

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