

**HVAC GUIDE™**  
GUIDED PROBE TESTER

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Professional-grade instruments for field service

**An Expert in Your Hip Pocket**

Complete the INPUT FORM by performing the required tests, press OUTPUT to see the results and recommendations.

Model HG1 users can purchase a software upgrade to convert it to a model HG2 with the CheckMe! function.

**Specifications**  
Range 500mVDC, 5VDC(auto)  
Accuracy 0.5% ± 2  
Input Protection Max 30VDC/24VAC  
Battery 1.5V AA x 6 (installed)  
Battery Life 500 hrs typical alkaline  
Test Memory Up to 200 saved tests

**Benefits**

- Improved HVAC technician performance
- Reduce call backs.
- Faster testing.
- Easier analysis.
- Higher quality job.
- Perform wider range of tests with less backup technical support.

**Features**

- Easy to use INPUT/OUTPUT FORMS to collect and analyze data.
- Automatically enter data using Fieldpiece accessory heads.
- Manual input using non-Fieldpiece test equipment.
- Sophisticated air conditioning analysis program based on data from 100,000 field tests (HG2 only).
- Download test data to a PC.
- Reload tests when returning to the same customer.
- Test data can be delivered to the customer as a work order.

**Which Accessory Heads?**

| TEST                        | MEASUREMENT     | HEAD |      |      |      | ATC |
|-----------------------------|-----------------|------|------|------|------|-----|
|                             |                 | ATH4 | ATH1 | ATH2 | ATH3 |     |
| Target Evaporator Exit Temp | Return Dry Bulb | •    | •    | •    | •    | •   |
|                             | Return Wet Bulb | •    | •    | •    | •    | •   |
|                             | Supply Dry Bulb | •    | •    | •    | •    | •   |
| Superheat                   | OD Dry Bulb     | •    | •    | •    | •    | •   |
|                             | ID Wet Bulb     | •    | •    | •    | •    | •   |
|                             | SL Pressure     | •    | •    | •    | •    | •   |
| Subcooling                  | LL Pressure     | •    | •    | •    | •    | •   |
|                             | LL Temp         | •    | •    | •    | •    | •   |
| Combustion                  | Flue Temp       | •    | •    | •    | •    | •   |
|                             | CO              | •    | •    | •    | •    | •   |
|                             | Primary Temp    | •    | •    | •    | •    | •   |
| Check Me! (model HG2)       | Return Dry Bulb | •    | •    | •    | •    | •   |
|                             | Return Wet Bulb | •    | •    | •    | •    | •   |
|                             | Supply Dry Bulb | •    | •    | •    | •    | •   |
|                             | Sup Plen Press  | •    | •    | •    | •    | •   |
|                             | Ret Plen Press  | •    | •    | •    | •    | •   |
| SL Pressure                 | •               | •    | •    | •    | •    |     |
| LL Pressure                 | •               | •    | •    | •    | •    |     |
| LL Temp                     | •               | •    | •    | •    | •    |     |
| Condenser Air Enter Temp    | •               | •    | •    | •    | •    |     |

• With optional aspirator pump, model AOKP2 (included with the AOKX head).  
• Thermocouple is included with recommended head.  
• Included with the HVAC Guide™ tester.  
• Recommended accessory head.  
This chart shows the accessory head and thermocouple recommended for each measurement.

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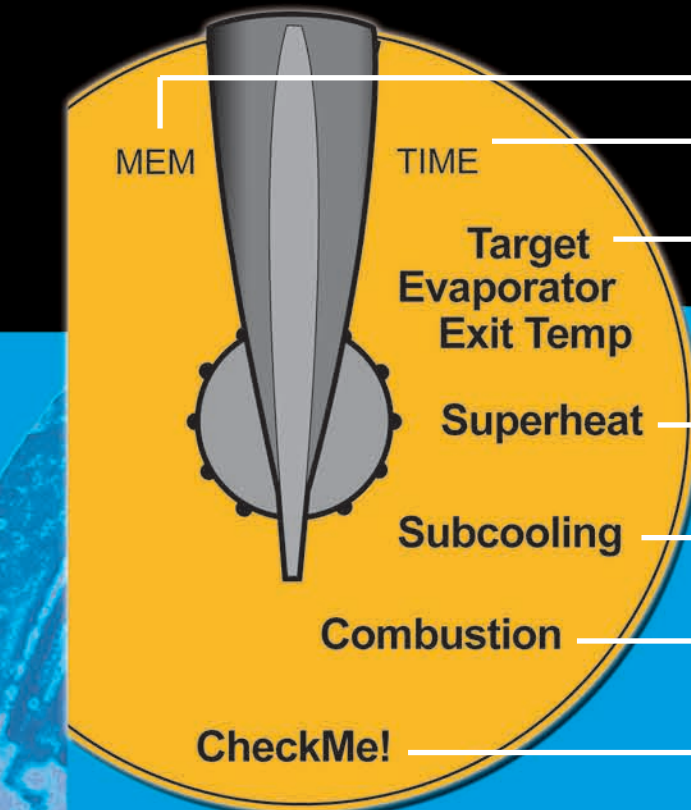
**Optional Pipe Clamp, Thermocouples and Accessory Heads**  
Minimize your time on the job by using the HVAC Guide™ tester with ATC series pipe clamps and accessory heads (model ATH4 is included).



**More effective HVAC installation and maintenance.**

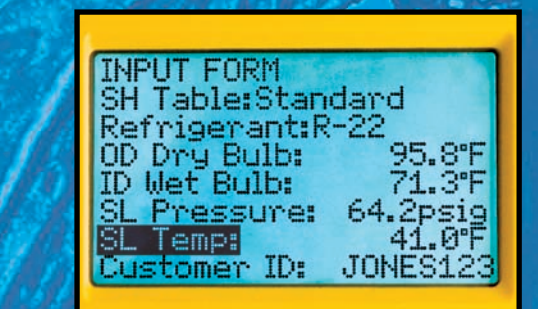
- Reduce call-backs.
- Easier.
- Faster.
- Better.
- Less reliance on off-site technical assistance.

**ALSO INCLUDES**  
ATH4 Dual-Temp Head  
ATW1 Thermocouple  
ANCS Case  
USB Cable  
PC Software



Upload data to PC via USB. Delete test data or customer files.  
Set real-time clock.  
Determine actual and target evaporator exit temperature by taking three temperature measurements.  
Determine target and actual superheat from indoor wet bulb, outdoor dry bulb, suction line temperature, and suction line pressure.  
Determine actual subcooling from liquid line temperature and pressure and compare to target subcooling.  
Combustion analysis from flue temperature, %O<sub>2</sub>, CO PPM, and primary temperature.  
Most advanced real-world method for troubleshooting A/C systems (model HG2).

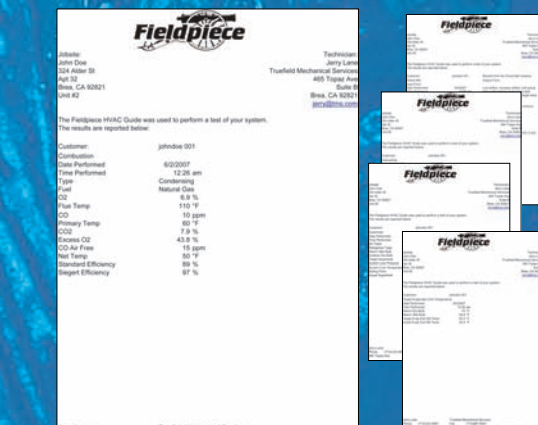
**USB Cable Included**  
Upload test data to a PC.



**Dot Matrix Display with Backlight**



**USB Cable**  
Connect to USB port on your PC and upload test data.



**Professional Reports**  
Generate work orders with time-stamped diagnostics and Customer IDs that can be edited in spreadsheet software.

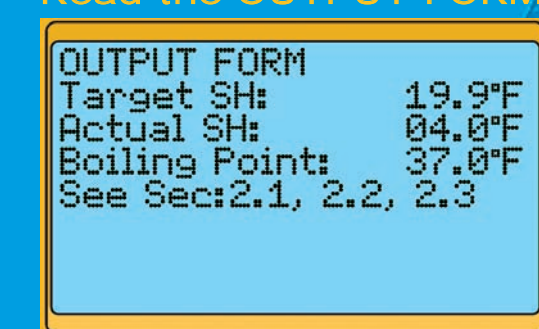
**Fill In the INPUT FORM**



The INPUT FORM guides you through each test. Each line of the INPUT FORM is a piece of data needed to fully perform the selected test. Track your jobs with Customer IDs.

- Three ways to enter data.**
- Automatically from accessory head:
    - Attach appropriate head.
    - Select appropriate line to edit.
    - Press ENTER to start measuring.
    - Press ENTER again to lock value.
  - Drop down menu.
  - Manually with arrow keys when using equipment you already own.

**Read the OUTPUT FORM**



To display the OUTPUT FORM, fill in the INPUT FORM and press the OUTPUT button. If the data entered on the INPUT FORM is out of range or physically impossible an error message is displayed. The OUTPUT FORM will display the results of the test. "See Sec:" shows the section in the manual with more information about the selected test.  
The CheckMe! (model HG2) OUTPUT FORM shows what the problem is and what to do about it, ranked in order of likelihood. If you haven't taken all the necessary measurements, the first line will tell you what you need to do for a complete diagnosis.

**Fieldpiece**

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www.fieldpiece.com