



Wireless*

Dual In-Duct Psychrometer Better than 20° Splits

- Real-time Target Evaporator Exit Temperature and Target Delta T.
- Calculates how the indoor unit should be performing based on the indoor heat load and shows you how the unit is actually performing.
- View enthalpy change across the evaporator in real-time.
- Wirelessly send 4 indoor temperatures to the HVAC Guide® System Analyzer for full system diagnostics.
- Threaded in-duct probe lock and magnetic hanger for hands-free testing.

Monitor
Evaporator
Conditions

SDP2 Dual In-Duct Psychrometer



Hands Free Solutions

A strong magnetic hanger holds the meter while the threaded cones stabilize the probes in place without damaging the plenum.

**RIGHT
STUFF**

Two Probes for Real-Time Testing and Analysis

One probe evaluates the air before the evaporator, the other evaluates the air after the evaporator coil. **AT THE SAME TIME!**

model
SDP2

*Measurements Can Be Sent to Your Wireless HVAC Guide or Wireless Manifold.

Fieldpiece

Comprehensive Indoor Psychrometrics

The two probes each simultaneously measure temperature and RH%. One goes before the evaporator (RETURN) and one goes after the evaporator (SUPPLY). These four measurements can be displayed or used in calculations to display the actual temperature split (delta T), the target temperature split, the actual evaporator exit temperature, or the target evaporator exit temperature (TEET), plus the difference between the actual and target. Enthalpy (BTU/LBM) and Dew Point can also be displayed.

The TEET takes into consideration the latent heat used to condense water from the air, while a simple 20° temperature split ignores latent heat. TEET, developed by Fieldpiece, is better. Plus, it's just easier in the field to aim for a single value (TEET) than a difference between two changing values.



www.fieldpiece.com

Specifications

Battery	9V	
Battery Life	120 hrs standard use (8/10line)	
Sensor Types	Precision thermistor and capacitive polymer film	
Wireless Range	100 ft	
Measurement	Range	Best Accuracy/ Best Resolution
Relative Humidity	0 to 100%	±2.5%/0.1%
Temperature	-4 to 149°F (-20 to 60°C)	±1.0°F (0.5°C)/0.1°F

Dual In-Duct Psychrometer

Model SDP2

View the Performance of an Evaporator

Easy Evaporator Checking

Just plug in two probes to measure the condition of air across the evaporator.

Accurate Temperature and RH% Measurements

Fast and accurate relative humidity and temperature measurements with 0.1° resolution. Take all your psychrometric measurements with one tool.

No Calibration Required

With calibration data stored on the sensors, you can swap or replace the sensors without re-calibration.

Real-Time Testing

Compare actual SUPPLY measurements with the SUPPLY targets to ensure good evaporator performance. Both actual and target measurements are all calculated in real-time.

Bright Blue Backlight

Easily read the LCD in dark places such as a poorly lit attic.

Threaded RCONE1 Lock

Screw the RCONE1 into the plenum or duct for clean and easy mounting of the probes and hands-free testing.

Magnetic Hanger

Keep your hands free.

View Change in Enthalpy (Δh)

Enthalpy difference (Δ BTU/LBM) is needed to determine delivered cooling BTUs. View real-time enthalpy change across the indoor unit.

Rubber Clips

Attach one probe to the side of the meter for one-handed testing.

And More:

- Wireless testing with models HG3 or SMAN4.
- 38" probes with ruled marks to know how deep it is.
- Rugged rubber boot.
- Each cable spans more than 5 feet to reach spots more than 10 feet apart.
- Metric or English units.
- Dual line display.
- Auto-Power-Off (APO) to extend battery life.



SMAN4 + HG3 + SDP2

4 Outdoor Measurements System Analyzer 4 Indoor Measurements

Equals Wireless Full System Analysis

Send 4 indoor temperatures (wet bulbs and dry bulbs) from the SDP2 and 4 outdoor measurements (refrigerant pressures and temperatures) from the SMAN4 to the HG3 to do real-time full system analysis. The HG3 performs all the calculations and tests can be saved, then printed out through a PC.



See it in Action!
Link to Fieldpiece Videos

DO MORE

What's Included

You get the instrument, two telescopic probes, and threaded locks to keep them in the duct or plenum. It all comes securely padded in this hard case.



2 x RBSP2 Telescopic RH% and Temperature Probes
2 x RCONE1 In-Duct Stabilizing Cone

© Fieldpiece Instruments, Inc. 2013