

Advanced Environmental Instrumentation

Harnessing the Power of Mobile Computing



✓ Surveyed

✓ Documented

✓ Reported



Example screens

Realtime

File	Log	Probe	View
ΔP		0.001	inH2O
Barometric		29.8	inHg
ΔT		1.1	°F
Air Speed		169	ft/m
Temperature		82.9	°F
Relative Humidity		38.9	%RH
Dew Point		64.2	°F

Menu Snap Live: 1st Floor Atrium

Click to "Snap" log

Click for Audio Note

Text Note attached

HVAC Field Note (completed template) attached

Choose Log Mode

WolfSense

☒ Snap ☐ Trend ☐ Auto

Trend Log averaged readings to:

Commerce Place

- Building 1
- Building 2
- Building 3
- 1st Floor
- atrium

New Site New Loc Outdoor

Interval: 1 mins 0 secs

Options

Cancel Start Log

Add Volume Flow

WolfSense

Select Probe:

Pitot Tube

☐ Area ☒ Diameter ☐ H x W

50 0 cm Help

☒ Standard ☐ Actual

STANDARD: Volume Flow calculated using standard environment values (STP).

Add to Display m3/h

Clear All Close



AS-201 telescoping hotwire airspeed probe

ADVANCEDSENSE® HVAC

Environmental Test Meters



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GrayWolf is changing the way that HVAC measurements are taken; enhancing your air sensing capability with a broad range of accurate, fast response sensors, and with advanced productivity tools. The AdvancedSense HVAC kit's powerful features are intuitive and Easy-To-Use.

- Differential Pressure, Air Velocity, Differential Temperature, Relative Humidity, Dewpoint and more are standard
- The built-in DP sensor module is *both* auto-zeroing and auto-ranging for unparalleled resolution and range
- Air velocity and volume flow may be measured with the included thermal anemometer and/or optional pitot tubes
- Expand your kit for CO₂, VOCs, toxic gases, particulate and other parameters
- Display, Trend Log or Snap Log instantaneous and/or averaged readings
- Add Audio, Text and other notes to data files on-site
- Generate professional reports with supplied software, automated reports with optional WolfSense® ARG
- On-board educational documents, tips, video help & industry video; even load your own for in-the-field instruction
- Flexible, powerful, smart and Easy-To-Use

ADVANCEDSENSE[®] HVAC

Environmental Test Meters

SPECIFICATIONS:

General:

PC Download/Reporting Software Req's: Windows 8/7/Vista/XP
 Dimensions: 96.0mm (3.8in.) w. x 177mm (7.0in.) h. x 47.0mm (1.8in.) d.
 Construction: Rugged polycarbonate plastic with rubberized side grips. IP64
 Weight: 750gr (1lb 12oz.)
 Screen Size: 785mm (3.5in.) QVGA 240 x 320 TFT color touch screen with backlight
 Memory: 4GB for data-logging (1 million+ readings) and notes (photo/video/audio); plus 2GB for program, help videos, documents and auto data backup
 Audio: Integral electret microphone (on front) and 4 ohm speaker (on back)
 Mounting: 1/4" - 20 thread (on back) for belt clip, etc. (& for included mini tripod/stand)
 Operating Range: -10°C to 50°C (-15°F to 122°F), 0 to 100 %RH non-condensing

Power:

Battery: 4250 mAh Lithium Ion rechargeable
 Battery Life: 27+ hours typical for new battery with backlight off (and airspeed probe, or optional probes self-powering)

The AdvancedSense can power DirectSense probes. Battery life will vary when powering external probes (AS-201 power consumption increases with air velocity).

Recharge time: 4 hours typical. LED displays charging/fully charged status
 Power supply: 100/240VAC, 50-60Hz external charger. Specify local plug.
 2 x sub-mini type K thermocouple sockets. Range -110° to 210°F (-80° to 1100°C)

RH-AS2 %RH/Temperature Probe:

Relative Humidity: Range/Acc: 0 to 100 %RH non-condensing. $\pm 2\%RH$ <80%RH ($\pm 3\%RH$ >80%RH)
 Air Temperature: Range/Accuracy: 5.0° to 160.0°F (-15° to +70°C). $\pm 0.3^\circ C$
 Dimensions: 2.1" (54mm) L, 0.55" (14mm) Ø

AS-201 Hotwire Airspeed Probe:

Air Velocity: Range: 0-6,000 ft/min (0.00-30.00 m/s)
 Accuracy: $\pm 3\%$ rdg or 3 ft/min (0.015 m/s), whichever is larger
 Temperature: Range: 15° to 160°F (-10° to +70°C)
 Accuracy: $\pm 2^\circ F$ (1.1°C)

Stated AS-201 temperature accuracy is in a minimum 50 ft/min (0.25 m/s) airflow.

Dimensions: 14.9" (380mm) L, 31.5" (800mm) L extended
 0.375" (9mm) diam. tip, 0.4375" (11mm) telescope base
 1.5" (38mm) diameter handle, 7.25" (185mm) L

	Differential Pressure (DP-702LH)	Barometric Pressure (BP-101) [*]
Range	$\pm 10,000Pa$, ± 10 inH ₂ O, ± 1000 mmH ₂ O, ± 100 mbar, ± 70 mmHg	600 to 825 mmHg, 800 to 1100mBar, 23.50 to 32.50 inHg, 0.80 to 1.10atm
Resolution	0.1 Pa, 0.001 inH ₂ O, 0.01 mmH ₂ O, 0.001 mbar, 0.001 mmHg	0.1mmHg, 0.1mBar, 0.01 inHg, 0.01atm
Accuracy (auto-zeroing enabled)	$\pm 1\%$ of rdg $\pm 0.2Pa$ up to 250Pa, $\pm 1\%$ rdg $\pm 4Pa$ >250Pa ($\pm 1\%$ of rdg ± 0.001 inH ₂ O to 1.000 inH ₂ O, $\pm 1\%$ rdg ± 0.015 inH ₂ O >1.000 inH ₂ O)	$\pm 0.1\%$ rdg

GrayWolf Software is 21 CFR Part 11 Compliant
All specifications are subject to change without further notice

The **AdvancedSense HVAC Premium** is a comprehensive kit that includes **AdvancedSense** meter, **DP-702LH** DP Sensor, **AS-201** hotwire anemometer, **RH-AS2** %RH/temp. probe, **WolfSense PC** data transfer/reporting software, **AD-L7F-USB** USB key/camera cable, **SWS-AS3a** 3 year added software upgrade subscription, **PCC-22AS** hard shell case and **PCC-AS01** AdvS pouch w/belt strap and neck strap. A range of additional probes and accessories are available from GrayWolf to expand your kit.



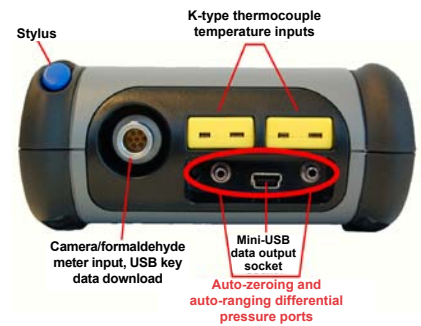
MEASURE SMART

REPORT EFFICIENTLY

Optional **IQ-610** 6 sensor
IAQ probe



Top View



RH-AS2 probe (included) shown at left with optional **ACC-RH-HDLA** handle with 1 m cable



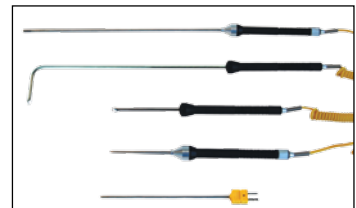
Optional **AS-202A** articulating hotwire probe and **PC-3016A** six channel particle counter



GrayWolf's unique **PIT-504-KIT** expandable Pitot Tube kit (shown with 2 extra extensions)

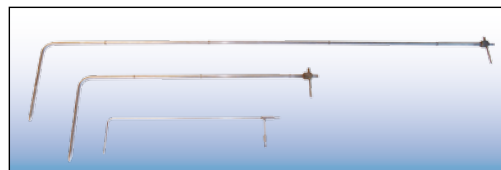


PCC-22AS hard-shell case, Included (shown with optional **PIT-504-KIT**)



GrayWolf's optional **300 Series** K-Type Thermocouple probes (or use your own)

Optional GrayWolf supplied pitot tubes (or use your own)



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