

JVANCEDSENSE JRECTSENSE Indoor Air Quality Meters

GRAYWOLF[®]
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Harnessing the Power of Mobile Computing



GrayWolf is transforming the way that environmental measurements are taken. GrayWolf's IAQ kits harness leading edge sensor technology with the power and performance of mobile computing. Efficiently display, document, access educational info (on-site) and report on IAQ parameters.

- An essential component of any professional IAQ program
- Organizes ALL survey info; data, text, calibration history and more...
- Measures VOCs, CO₂, CO, %RH, Dewpoint, Temperature and more... accurate and fast
- Options for Toxic Gases, Differential Pressure, Particulates, Airspeed and more... up to 32 parameters simultaneously
- On-board help files, including advanced product help videos and IAQ industry videos (view in situ)

- Comes with numerous IAQ field forms (Mold Checklist, etc.) and auto-data fill reports for on-site input (or create your own)
- WolfSense® PC desktop software is included for data review, graph creation, cut & paste report generation
- Optional Advanced Report Generator software for automated, ultra-efficient, detailed IAQ reports
- Tap the screen for educational info: sensor tips, IAQ documents and guidelines
- Intuitive and extremely Easy-To-Use

Choose Your Platform:

AdvancedSense Handheld Embedded PC Meter



WolfPack® Modular Area Monitor







Or Use Your Own Windows PC as the instrument platform Remote Data Access to, and email/text alerts from, any WiFi enabled platforms via optional GrayWolfLive™

Example AdvancedSense/WolfPack® Screens

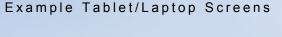


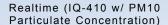
Display measurements in realtime. Access "sensor tips", IAQ documents and guidelines on-screen. Store "snapshot" readings. "Trend" log over hours/days/weeks. Document each measurement location with text, graphic, even audio notes. Also attach photos, Word field forms, time-stamped event notes, calibration history and other info to data files.

- Optimize the balance between ventilation energy efficiency and occupant performance (and health)
- Easily establish baseline data & respond immediately to complaints
- Test conditions before and after building modifications
- Screen for additional testing requirements

attached

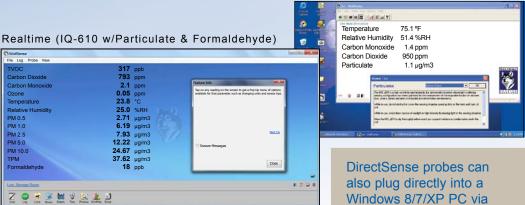
• Track down (bloodhound) pollutant sources





a USB port and GrayWolf's

WolfSense LAP software.







VOCs CO_2 CO %RH **Temperature** +1 more **Toxic Gas**

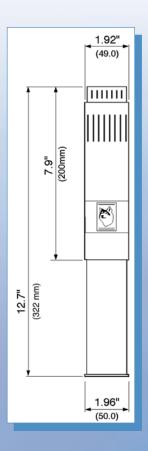
Highly accurate, extremely fast response sensors. Perfect for both quick walk-through surveys and for long-term IAQ trending.

Track VOCs over time, rapidly bloodhound VOC sources or determine optimum locations and times to take air samples for VOC speciation via lab analysis. A very powerful screening tool.

IQ-610

One specific gas sensor slot (additional to CO) is available on the IQ-610. Choose from:

Ozone Nitrogen Dioxide Nitric Oxide **Ammonia** Chlorine Hydrogen Sulfide Sulfur Dioxide Oxygen HCN, HCI, H2, EtO, SiH4, AsH₃, PH₃, ClO₂, COCl₂, HF or F2



IQ-410/ **IQ-604**

CO₂, CO, %RH & °C/°F The IQ-604 also includes sockets for 1 PID (VOCs) and 1 EC (specific gas) sensors for future upgrade.



TG-502

VOCs (PID) plus 3 specific gases, %RH & °C/°F. Choose low sensitivity (20ppm), mid (2000ppm) or high range (10,000ppm)



FM-801

Formaldehyde (ppb HCHO)

Interface these meters to GrayWolf platforms; and/or use as stand-alones



Concentration

PC-3016A

6-Channel Particulate Meter



AS-202A

Air Velocity probe (telescoping with 90° articulating tip and laser etched cm & inch scale)



GrayWolf manufactured instruments, and tablet PCs, ideal for your application, are all available from GrayWolf. Or use your own. More probes, sensors, display/logging platforms and software features are on the way. Expand your GrayWolf system as your measurement needs grow and as legislative requirements change.

A 2nd probe, or even a 3rd probe (+airspeed +DP +BP for AdvancedSense or WolfPack), may be connected simultaneously with the option to also add a particulate and/or formaldehyde meter. All parameters display and log to the same data file.

ADVANCEDSENSE LAQ

Indoor Air Quality Meters

SPECIFICATIONS: IQ-410, IQ-604, IQ-610

Carbon Monoxide: (electrochemical) Range: 0 to 500ppm

Accuracy: ±2ppm <50ppm, ±3%rdg >50ppm

Carbon Dioxide: (NDIR) Range: 0 to 10,000ppm

Accuracy: ±3%rdg ±50ppm

VOCs: (PID) IQ-610 only Range: 5 to 20,000ppb

(user selectable units: ppb, ppm, µg/m3, mg/m3)

Resolution 1ppb, L.O.D. <5ppb

10.6 eV PIDs do not respond to VOCs with ionization potentials >10.6, such as ethane, methane or formaldehyde. However, they do respond to the vast majority of VOCs. Standard calibration is to Isobutylene. Users may calibrate to alternative VOCs.

Relative Humidity: (capacitive) Range: 0 to 100 %RH

Accuracy: ±2%RH <80%RH (±3%RH>80%RH)

Temperature: (Pt100) Range: -10° to 160°F (-25° to +70°C)

Accuracy: ±0.3°C

Response Time: All sensors exhibit 90% response <1 minute

Probe Dimensions: 2in. (5cm) dia. x 12.5in. (30cm) lgth.

Weight (probe): w/batteries 1lb. 10oz. (0.7kg)

Power (IQ-410, IQ-604): $2 \times D$ cells; probe battery life 120+ hrs.

(IQ-610): typical probe battery life 60+ hrs.

(computer battery life varies by make and model)

Operating Range

PID (VOC) sensors: 0 to 90%RH, -15 to 60°C

Probe & other sensors: 0 to 98%RH (non-condensing), -15 to 60°C

PC Software Requirements: Windows 8/7/XP

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT FURTHER NOTICE

- AdvancedSense IAQ kits include an AdvancedSense meter.
 DirectSense IAQ TAB kits include a WIN8 tablet PC.
 These complete kits also come with probe, WolfSense PC desktop data transfer software, hardshell security case, probe & meter/mobile PC pouches and more. Contact GrayWolf for details.
- Wall mounting brackets, direct connect cameras, belt carried air pumps, extension cables, USB cable/keys for field data download and other accessories are also available from GrayWolf. View them on our website at: accessories.graywolfsensing.com.



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REPORT EFFICIENTLY





▲ PCC-10 Security Case (shown above w/optional ACC-BRK1 brackets for external HCHO or other meters)

ACC-TPDL-KIT includes tripod and mounts for various meters/ probes, plus nylon carrying case ▼



PCC-15 Dual probe Security Case (shown with optional FM-801 formaldehyde meter and PM-205 particulate

concentration meter)

PCC-AS01

pouch and

PCC-05IQ

(shown w/

probe pouch

formaldehyde meter)

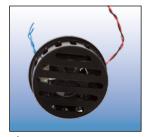
AdvancedSense



CA-HD2
Gas Calibration Hood,
may also be used for
fan/pump air sampling







ACC-DSPFAN-1
Optional fan built into DirectSense probes. Allows CA-HD2 sample draw from ducts, cabinets, etc. and more

◆ CA-GS12 (top left)
CO2 and CO Gas Cal Kit
CA-RH1 (bottom left)
%RH Calibration kit
CA-GS25 (right)
TVOC Calibration Kit

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