

AECISENSE IAC

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Harnessing the Power of Mobile Computing

for Advanced Environmental Measurements

Surveyed ©Documented ©Reported



GrayWolf is changing the way that environmental measurements are taken. The DirectSense IAQ harnesses leading-edge sensor technology with the power and performance of mobile computing: your choice of Pocket PC, XP/Vista PC or embedded computer platforms.

- 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...
- Options for Toxic Gases, Differential Pressure, Particulates, Airspeed and more...
- Tap the screen for educational info: sensor tips, IAQ documents and guidelines
- Extremely easy to use

- Comes with 18 IAQ Field (Word) forms (mold checklist, etc.) for on-site input
- 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
- Extensive on-board help files, including video help

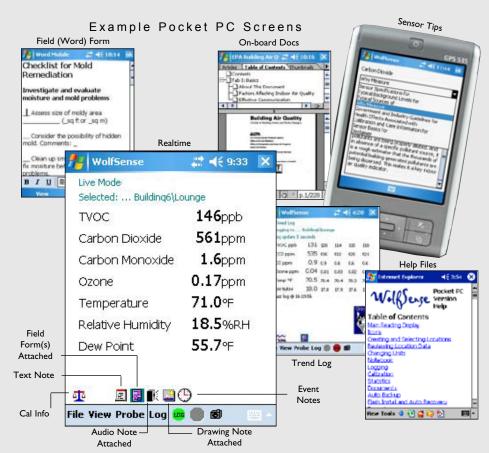




Ruggedized Pocket PC

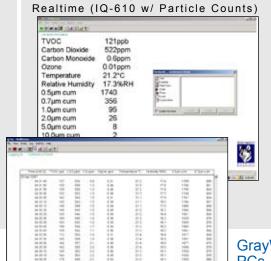


Ultra-mini/Tablet PC (with built in camera and swivel touch screen)



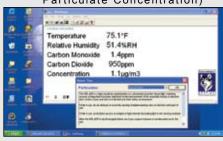
Display measurements in realtime. Access "sensor tips", IAQ documents and guidelines on-screen. Store "snapshot" readings. "Trend" log over hours/days/weeks. Document each measurement location with text, graphic, even audio notes. Also attach photos, Word field forms, time-stamped event notes, calibration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



Trend Log

Realtime (IQ-410 w/ Particulate Concentration)



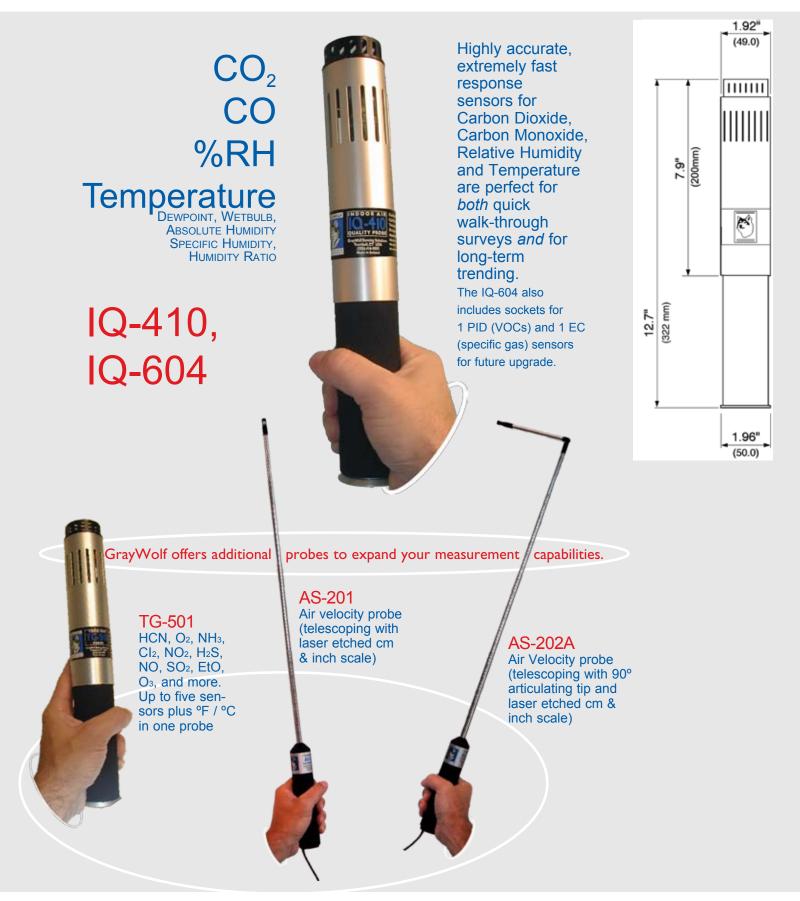
DirectSense probes can also plug directly into a Windows XP/Vista PC via a USB cable and GrayWolf's WolfSense LAP software.

GrayWolf provides Pocket PCs, Tablet PCs, Ultra-Mini notebooks and embedded computer instruments that are ideal for the application – or use your own.









A 2nd probe may be connected simultaneously via an optional Y-adapter or AdvancedSense meter (a 3rd probe via WolfPack area monitor) with option to also add a particulate meter. All parameters display at the same time and log to the same data file.







VOCs
CO2
CO
%RH
Temperature
+1 more Toxic Gas
IQ-610

All of the IQ-410 capability *plus* a ppb range PID sensor for VOC measurements:

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.



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

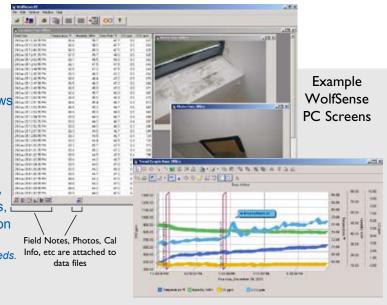
Ozone
Ammonia
Chlorine
Hydrogen Sulfide
Nitrogen Dioxide
Nitric Oxide
Sulfur Dioxide
Oxygen
Ethylene Oxide
HCN, HCl, H₂, SiH₃,
AsH₃, PH₃, ClO₂, CCl₂O,
HF or F₂



WolfSense® PC

WolfSense PC data transfer software*, supplied as standard, allows readings logged on the mobile PC to be reviewed on desktop PCs. Simply export to Excel, or utilize WolfSense PC's intuitive menu to produce graphs from trend data, add comments, autoinclude event note lines, alarm lines, etc. for a highly professional presentation. Data is displayed with attached notes (text, drawing, calibration, etc.) for easy cut-and-paste into a Word report. Photos, graphs and other files may be attached for exceptional organization and documentation.

*GrayWolf lets you make as many copies of this software as your organization needs.



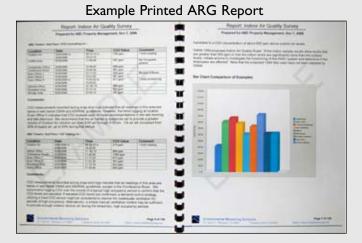
WolfSense ARG

Optional WolfSense ARG Advanced Report Generator; IAQ edition, takes report production to an entirely different level. A software wizard walks you through report template set-up. Whether you want 5 page reports or 250 pagers, once templates are structured just transfer data to efficiently produce highly professional reports. Make use of a range of included text blocks (Survey Strategies, Results & Conclusions, etc.), edit them and/or add your own.

Template elements that may be selected include:

- Recurring Text (for every report)
- Prompting Text (author selects from a list of text blocks)
- Parameter by Parameter Data Tables, Bar Graphs
- · Parameter Info (Health Effects, Typical Background Levels, Government & Industry Guidelines, etc.)
- Location by Location Data and Notes (collected on-site)
- Auto-Generated Trend/Comparative Graphs
- Equipment List
- · Calibration Data...and much more

Output to Word (or RTF) format for easy editing and printing.





Software is supplied on CD and USB Key. Upgrades may be downloaded online (I year of free software upgrades supplied as standard)





VentCal™

Optional VentCal™ software walks users through CO2 tracer calculations of outdoor air ventilation rates utilizing choice of 3 tracer gas techniques:

- · Air Ratio
- Equilibrium Tracer
- **Tracer Decay**

Display results as:

- · Air changes/Hour
- Volume Airflow/Occupant Volume Airflow/Floor Area
- Produces an HTML report



Air Ratio

Example VentCal Screens



Tracer



Tracer Decay



Indoor Air Quality Monitor

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

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

Accuracy: ± 3% rdg ± 50 ppm

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

Accuracy: ±2ppm <50ppm, ±3%rdg >50ppm

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

(user selectable units: ppb, ppm, µg/m3, mg/m3) Resolution I ppb, L.O.D. <5 ppb

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: 5° to 160°F (-15° to +70°C)

Accuracy: ±0.3°C

Response Time: All sensors exhibit 90% response < I 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 x 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, -15 to 70°C

PC Software Req's: WIN 2000/XP (w/.NET 2.0+ installed),

Vista, WIN7 or higher

30MB hard disc (min.) space

GrayWolf Software is 21 CFR Part I I compliant.

ALL SPECIFICATIONS ARE TO SUBJECT TO CHANGE WITHOUT FURTHER NOTICE.

- The DirectSense IAQ Standard, DS IAQ Plus and DS IAQ Master are complete kits that include your choice of Pocket PC or Notebook computer and come with the IQ-410 or IQ-610 IAQ probe, WolfSense IAQ application software, WolfSense PC desktop data transfer software, hardshell security case, probe and mobile PC pouches and much more. Contact your representative or GrayWolf for details.
- Portable printers, air pumps, extension cables, dual probe adapters, dual probe security cases, dual probe tripod mounts, serial adapters (for simultaneous connection of particulate meters to mobile PCs), audio note-to-text translation software and other accessories are available from GrayWolf.

MEASURE SMART

FREPORT EFFICIENTLY





▲ PCC-10 Security Case

PCC-PH01 PPC Pouch and PCC-05IQ Probe Pouches (shown w/ PM-205 particulate concentration meter)



ACC-TPDI Tripod with ACC-MNTI PPC Mount (add ACC-TF2 fitting for dual probes) ▼



Interchange probes w/ modular WolfPack Area Monitor



CA-HD2
Gas Calibration Hood ▼







CA-GS25 ▼ VOC Cal Kit



CA-GS12 CO₂ and CO Gas Cal Kit

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