

ADVANCEDSENSE DIRECTSENSE<sup>®</sup> IAQ

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Quality

Air

ndoor



# GRAYWOLF SENSING SOLUTIONS PH. 1-203-402-0477 FAX: 1-203-402-0478

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WEBSITE: www.GrayWolfSensing.com



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, CO<sub>2</sub>, CO, %RH, Dewpoint, Temperature and more...
- Options for Toxic Gases, Differential Pressure, Particulates, Airspeed and more...
- On-board help files, including advanced product help videos and IAQ industry videos (view on PC or *in situ*)

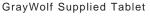
- Comes with numerous IAQ field forms (Mold Checklist, etc.) and auto-data fill reports for on-site input (or create your own)
- WolfSense<sup>®</sup> PC desktop software is included for data review, graph creation, cut & paste report generation
- Optional Advanced Report Generator software for automated, 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:



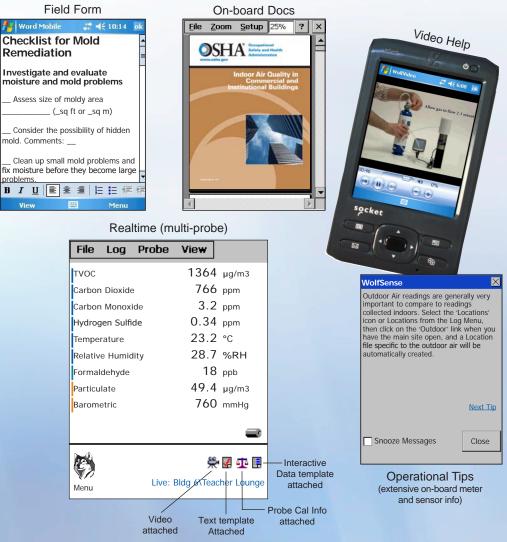






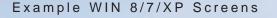


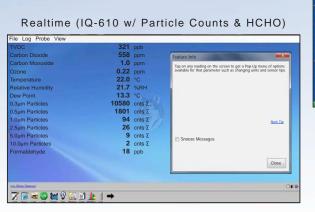
# Example AdvancedSense/Pocket PC/WolfPack® Screens



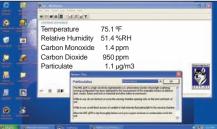
Display measurements in realtime. Access "sensor tips", IAQ documents and guidelines on-screen. Store "snapshot" readings. "trend" log over hours/ days/weeks. Document each measurement location with text, graphic, even audio notes. Also attach photos, Word field forms, time-stamped event notes, calibration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





## Realtime (IQ-410 w/ Particulate Concentration)



DirectSense probes can also plug directly into a Windows 8/7/XP PC via a USB port and GrayWolf's WolfSense LAP software. Notate Organize Display Data-Log Download Report

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**IQ-610** 

# **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

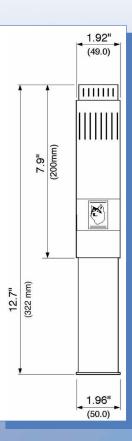
lab analysis. A very powerful screening tool.

> IQ-410/ IQ-604 CO<sub>2</sub>, CO, %RH & °C/ºF 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/ºF. Choose low sensitivity or high range (10,000ppm)PID.

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, HCI, H<sub>2</sub>, SiH<sub>4</sub>, AsH<sub>3</sub>, PH<sub>3</sub>, ClO<sub>2</sub>, COCl<sub>2</sub>, HF or F<sub>2</sub>



FM-801 Formaldehyde (ppb HCHO)

PC-3016A 6-Channel **Particle Counter** 

AS-202A

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



A 2<sup>nd</sup> probe (a 3<sup>rd</sup> 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.

GrayWolf manufactured instruments, tablet PCs, and Pocket 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.

PM-205 Particulate Concentration

### MEASURE SMART

## **REPORT EFFICIENTLY**



GRAYWOLF

# **ADVANCEDSENSE**<sup>®</sup> DIRECTSENSE<sup>®</sup> IAQ

# Indoor Air Quality Meters

# 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 1 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)

Range: -10° to 160°F (-25° to +70°C) Temperature: (Pt100) 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 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 (non-condensing), -15 to 60°C

## PC Software Req's: Windows 8/7/Vista/XP

GRAYWOLF SOFTWARE IS 21 CFR PART 11 COMPLIANT.

ALL SPECIFICATIONS ARE TO SUBJECT TO CHANGE WITHOUT FURTHER NOTICE

- AdvancedSense IAQ kits include an AdvancedSense meter. DirectSense IAQ PPC kits include a Pocket PC. DirectSense IAQ LAP 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, audio note-to-text transcription software and other accessories are also available from GrayWolf. View them on our website at: accessories.graywolfsensing.com .



# **GRAYWOLF**<sup>®</sup> SENSING SOLUTIONS

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

> CA-HD2 Gas Calibration Hood











### GRAYWOLF SENSING SOLUTIONS TUAMGRANEY INDUSTRIAL ESTATE. UNIT 8 TUAMGRANEY, CO CLARE, IRELAND Рн. (353)61921736 FAX: (353)61921528



▲ 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 🔻

