

Surveyed

Quality ndoor

eters

GRAYWOLF SENSING SOLUTIONS Рн. 1-203-402-0477

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Advanced Environmental Instrumentation

Harnessing the Power of Mobile Computing

O Documented

Reported



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, O3, NO2, %RH, Dewpoint, Temperature and more... accurate and fast. Industry leading CO2 accuracy at +/-35ppm over the IAQ range
- Options for Particulate, other Toxic Gases (e.g. HCHO, Cl2, H2S), Differential Pressure, Airspeed and more... all simultaneously
- 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, on-board help videos, IAQ documents and guidelines
- Intuitive and extremely Easy-To-Use

Choose Your Platform:

AdvancedSense Handheld Embedded PC Meter



WolfPack® Modular Area Monitor



GrayWolf Supplied Win10 Tablets

Standard or rugged tablets with great standard features (built-in camera, Bluetooth, WiFi). Or use your own.



Remote Data Access to, and email/text alerts from, any WiFi enabled platforms via optional GrayWolfLive®

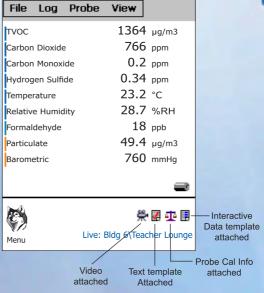
Example AdvancedSense/WolfPack Screens





AdvancedSense Pro
Environmental Test Meter

Realtime (multi-probe)





Operational Tips (extensive on-board meter and sensor info)

Display measurements in realtime. Access "sensor tips", IAQ documents and guidelines on-screen. Store "snapshot" readings. "Trend" log over hours/days/weeks/months. 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, health and wellness.
- · Easily establish baseline data & respond immediately to complaints
- Test conditions before and after building modifications
- Screen for additional testing requirements
- Track down (bloodhound) pollutant sources



also connect directly to
Windows 8/Vista/10 PCs
using GrayWolf's WolfSense
LAP software app.

Notate Organize Display Data-Log Download Report

TVOCs Carbon Dioxide Carbon Monoxide Relative Humidity Temperature + up to 3 more gases

Highly accurate, extremely fast response sensors. Perfect for walk-through surveys, rapid response to complaints, quick outdoor air comparisons, for long-term IAQ trending and for continuous monitoring (on-board and/or via WiFi).

Track VOCs over time, rapidly blood-hound VOC sources or determine optimum locations and times to take air samples for VOC speciation via lab analysis.

DSII-8

Choose the sensors that you need for IAQ applications, up to 8 total (5 for the DSII-5). Typically TVOCs, CO₂, CO, %RH and C/F. Add O₃, NO₂ and/or other parameters, choosing from:

Ozone
Nitrogen Dioxide
Nitric Oxide
Ammonia
Chlorine
Hydrogen Sulfide
Sulfur Dioxide
Oxygen
And even toxic gases such as:
CH₂O, HCN, HCl, H₂, EtO, SiH₄,
AsH₃, ClO₂, HF, F₂ and more...



IQ-610 TVOCs, CO₂, CO, %RH & °C/°F. The IQ-610 also includes a socket for 1 additional EC (specific gas) sensor.



IQ-410 CO₂, CO, %RH & °C/°F. The bare basics for IAQ testing.



TSP and 2 others

Simultaneously)

FM-801 Formaldehyde (ppb HCHO)

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



AS-202A

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



Particulate Concentration (PM1, PM2.5, PM10 or TSP)

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

Expand your GrayWolf system as your measurement needs grow and as industry and legislative requirements change.

ADVANCEDSENSE® DIRECTSENSE | A

Indoor Air Quality Meters

SPECIFICATIONS: IQ-410, IQ-610, DSII-3/5/7*, DSII-8*

*DSII SENSORS CAN BE MIXED AND MATCHED TO BEST SUIT YOUR APPLICATION; TRH + up to 6 SENSORS (8 total) for DSII-8, TRH + 5 (excepting CO2) for DSII-7, TRH +3 for DSII-5, TRH + 1 for DSII-3

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

Accuracy: ±2ppm <50ppm, ±3%rdg >50ppm

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

DSII Accuracy: ± 35ppm over the IAQ range (350ppm-2000ppm) ± 35ppm ±3%rdg >2000ppm

DSI Accuracy: ± 50ppm ±3%rdg over the full range

Range: 5 to 20,000ppb VOCs: (PID) not for IQ-410

(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

DSI Probe Dimensions**: 2in. (5cm) dia. x 12.5in. (30cm) lgth. Weight (probe): w/batteries 1lb. 10oz. (0.7kg)

Power (IQ-410): 2 x D cells; probe battery life 100+ hrs.

(IQ-610): typical probe battery life 50+ hrs.

**Refer to DirectSense II brochure for DSII dimensions and battery life

Operating Range

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

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

PC Software Requirements: Windows 7/8/10

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT FURTHER NOTICE

AdvancedSense IAQ kits include an AdvancedSense meter. DirectSense IAQ TAB kits include a WIN10 tablet PC. These complete kits also come with probe, WolfSense PC desktop data transfer software, hardshell security case, and more. Contact GrayWolf for details.

 Alternative carry cases, pouches, belt clips, extension cables and other accessories are also available from GrayWolf. View them on

our website at: GrayWolfSensing.com/Accessories.

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PCC-20 DSII 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 pouch



PCC-15 Dual DSI Probe Security Case (shown with optional FM-801 formaldehyde meter and PC-3016 particulate meter)

PCC-AS01 AdvancedSense

pouch and PCC-05IQ

(shown w/

FM-801 formaldehyde

meter)

probe pouch



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



Gas Calibration Cap for DSII Probes



◆ CA-GS25L TVOC Calibration Kit for DSI (specify CA-GS25L-DSII for DSII). NIST traceable reference gases are also available for CO2. CO and other gases.

GRAYWOLF® SENSING SOLUTIONS

6 RESEARCH DRIVE (WORLDWIDE HEADQUARTERS)

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