Advanced Environmental Instrumentation
Harnessing the Power of Mobile Computing
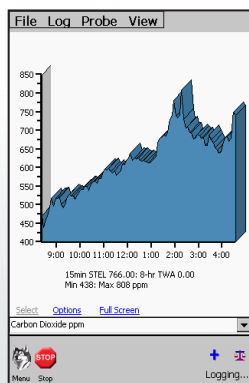
✓ Surveyed   ✓ Documented   ✓ Reported
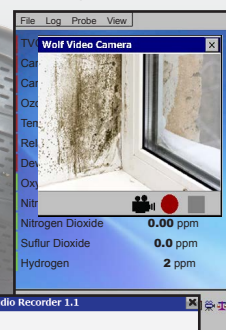
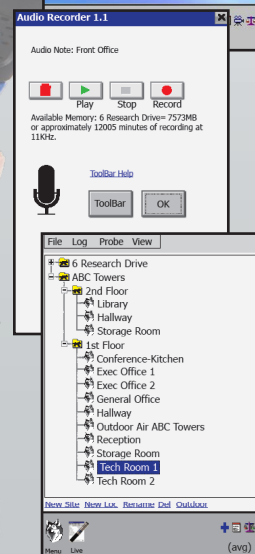### Example Screens

Live Graph

File Log Probe View

15min STEL 766.00: 8-hr TWA 0.00
Min 438: Max 808 ppm

Select   Options   Full Screen
Carbon Dioxide ppm

STOP
Menu Stop   Logging...

Live Display

File Log Probe View

TVOC	11 ppb
Carbon Dioxide	848 ppm
Carbon Monoxide	1.4 ppm
Ozone	0.00 ppm
Temperature	24.9 °C
Relative Humidity	29.7 %RH
Formaldehyde	21 ppb
Particulate	61.74 µg/m3
ΔP	0.2 Pa
Barometric	1006 mbar

Menu Snap   Live: Airport\Exec Lounge

Live Display (device)

File Log Probe View

TVOC	41.8 ppm
NO2	0.00 ppm
SO2	1.3 ppm
Temp	72.4 °F
Dew	57.8 °F
O3	0.00 ppm
NH3	1.6 ppm
H2S	0.00 ppm

Live Notes Log Locs Graph Review

AdvancedSense Pro
Environmental Test Meter

apps   GRAYWOLF
AC CHARGE

Video/Photo Notes

File Log Probe View

Wolf Video Camera

Nitrogen Dioxide	0.00 ppm
Suflur Dioxide	0.0 ppm
Hydrogen	2 ppm

Audio Recorder 1.1

Audio Note: Front Office

Play   Stop   Record

Available Memory: 6 Research Drive= 7573MB
or approximately 12005 minutes of recording at
11KHz.

ToolBar Help

ToolBar   OK

Audio Notes

LOG

File Log Probe View

- 6 Research Drive
- ABC Towers
  - 2nd Floor
    - Library
    - Hallway
    - Storage Room
  - 1st Floor
    - Conference-Kitchen
    - Exec Office 1
    - Exec Office 2
    - General Office
    - Hallway
    - Outdoor Air ABC Towers
    - Reception
    - Storage Room
    - Tech Room 1
    - Tech Room 2

New Site New Loc Rename Del Cut/cut

Menu Live   (avg)

Descriptive Data File Names

ADVANCEDSENSE® PRO
Environmental Test Meter Plus

GrayWolf is transforming the way that environmental measurements are taken. The AdvancedSense Pro meter runs highly advanced, very user-friendly application software. Display, data-log and annotate (on-site) a broad range of parameters with a single, rugged, cutting edge instrument.

- Simultaneously connect 1 or 2 GrayWolf DirectSense® probes with up to 8 sensors per probe plus a particulate and/or formaldehyde meter

- Available sensors; differential pressure, airspeed, TVOCs, CO_2, %RH, °C/°F, CO, O_3, NH_3, H_2S, NO, NO_2, SO_2, Cl_2, HCN, H_2, HF, HCl, F_2, HCHO and other parameters

- Backlit color touch screen with virtual keyboard (for text input such as descriptive data file)

- Bluetooth for wireless connection to probes (as a standard alternative to cabled connection).

- WiFi for emailing data, live updates and optional GrayWolfLive® remote data access

- **Feature rich** with productivity tools that make your environmental surveys more efficient, more detailed, more reliable:

  - Built-in 2MP camera for photos/videos that attach to data (with annotation)

  - Microphone for audio documentation of surveys

  - Text notes, field (Word template) notes, event notes and more auto-attach to data

  - Speaker for audible queues, alarms and more

  - On-board educational info, application docs, help videos, sensor tips and more

  - Data transfer & reporting software for trend graphs, note management and much more

- Highly intuitive and extremely Easy-To-Use

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ADVANCEDSENSE® PRO

Environmental Test Meter Plus

✔ Measure Smart   ✔ Report Efficiently

SPECIFICATIONS:
(for additional sensor/probe specifications refer to GrayWolf's DirectSense ®, pitot tube and thermocouple brochures)

General:

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:	700gr (1lb 8.5oz.) Add 50gr (1.5oz.) for auto-zeroing ΔP option
Screen Size:	3.5" HVGA 320 x 480 color touch screen with backlight
Memory:	32GB for data-logging (millions of readings) and notes (photo/video/audio), help videos, documents and WolfSafe™ auto-data backup
Camera/LED:	Integral 2MP photo/video camera and 17cd LED illuminating/inspection light
Wireless Network:	WiFi 802.11 a/b/g with integrated antenna and Bluetooth 4.0 standard (may optionally be ordered with wireless hardware removed)
Audio:	Integral electret microphone (on front, for audio recording) and 8 ohm speaker (on back, for audio queues, help videos and audio note replay)
Mounting:	¼" - 20 thread (on back) for belt clip, etc. (& for included mini tripod/stand)
Operating Range:	-10ºC to 50ºC (15ºF to 122ºF), 0 to 100 %RH non-condensing

Connectors:

2 x Lemo 8F pin for GrayWolf DirectSense probes (the AdvancedSense Pro will support up to 4 x DirectSense probes with Y-adapters)

1 x Lemo 7F pin for particulate meters or RH-AS2 direct-connect TRH probe

2 x sub-mini type K thermocouple temperature sockets. Range -80 to 1100ºC (-110 to 2010ºF)

1 x Lemo 7M pin for formaldehyde meter, or optional USB key download adapter cable

1 x USB mini B socket. 1m mini USB B to USB A download cable supplied as standard

1 x 12V, 2.1mm DC power socket

Optional: 2 x 4mm posts for differential pressure tubing

Power:

Battery:	4250 mAh Lithium Ion rechargeable
Battery Life:	16+ hours typical for new battery with backlight off (and probes self-powering)
	The AdvancedSense Pro can power DirectSense probes. Battery life will vary when powering probes, pressure sensors or wireless.
Recharge time:	4 hours typical. Red/green front LED displays charging/fully charged status
Power supply:	100/240VAC, 50-60Hz external charger. Specify local plug

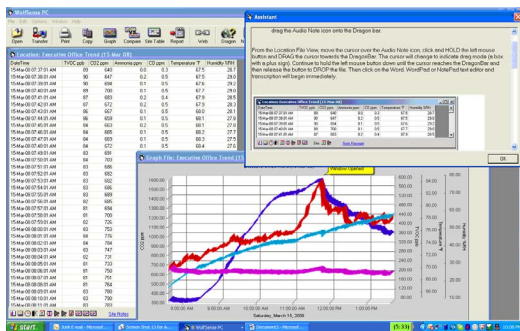**All specifications are subject to change without further notice**

Optional Built-in Sensors:

	Differential Pressure (**DP-702LH**)	Barometric Pressure (**BP-101A**)*
Range (auto-ranging, dual DP sensors)	±10,000Pa, ±40 inH₂O, ±1000 mmH₂O, ±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 inH₂O, 0.01 mmH₂O, 0.001 mbar, 0.001 mmHg	0.1mmHg, 0.1mBar, 0.01 inHg, 0.01atm
Accuracy (auto-zeroing enabled)	±1% of rdg ±0.1Pa up to 250Pa, ±1%rdg ±4Pa >250Pa (±1% of rdg ±0.001 inH₂O to 1.000 inH₂O, ±1%rdg ±0.015 inH₂O>1.000 inH₂O)	±0.1% rdg

Differential Pressure is auto-zeroing
(every 2 minutes by default but zeroing frequency is user adjustable to 5 min. or OFF)

*The barometric pressure sensor, when installed, will compensate mass concentration readings (µg/m³) for pressure changes.

WolfSense® PC data transfer and analysis software supplied as standard

Front View / Stylus / Rugged rubber overgrips / Color touch screen (w/ backlight) / AdvancedSense Pro Environmental Test Meter / Applications button (tiles menu) / Power (on/off) button / AC charge indicator / Microphone (attach audio notes directly to data files)

Top View / Stylus / K-thermocouple temperature inputs (standard) / Input for formaldehyde sensor or output to USB key / USB Ouput to PCs (cable included as standard) / Optional auto-zeroing differential pressure ports

Bottom View / 7 pin Lemo for Particulates (or GrayWolf RH-AS2 %RH & ºC/ºF probe) / 12V DC input from 100/240V AC charger / 8 pin Lemo inputs for GrayWolf DirectSense probes / 96mm 3.8"

Right Side View / 47mm 1.8" / 177mm 7.0"

Back View / Speaker / LED illuminating/inspection light / 2MP photo/video camera / Barometric pressure calibration port / 1/4"-20tpi brass insert for tripod/belt clip/etc.

2m dual tubing is supplied with optional differential pressure sensor. GrayWolf offers a selection of pitot tubes for air velocity and K thermocouples for temperature measurement. ▼

PCC-AS01 pouch with neck-strap for hands-free surveys. Also eyelets for camera/inspection light and hand-strap/belt-loop.▼

▲ **PCC-20A** Hardshell case holds AdvS Pro, probes (DSII inside or extended for secure monitoring) & accessories. Larger cases also available.

Cloud Platform Data Application, Advanced Reporting Software, Calibration kits and other accessories are available from GrayWolf. View them online at: **graywolfsensing.com/accessories/**
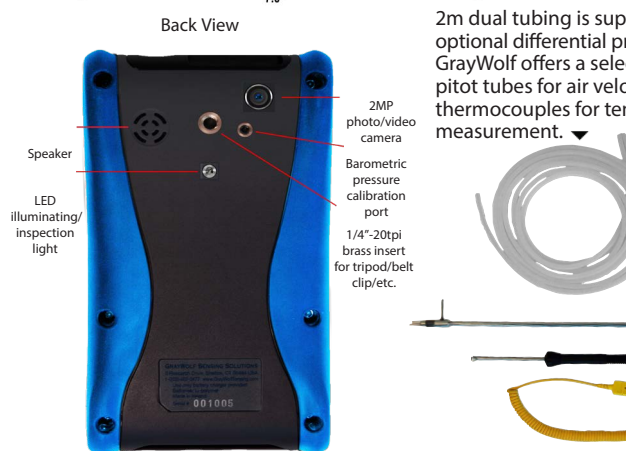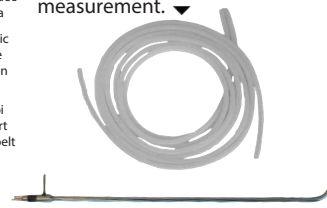
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