Advanced Environmental Instrumentation
Harnessing State-of-the-Art Technology for Air Measurement Applications

✓ Surveyed ✓ Documented ✓ Reported

ADVANCEDSENSE® XM
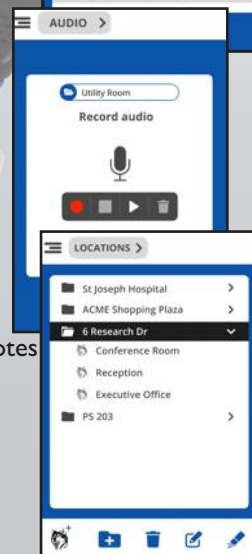## Environmental Test Meter (Preliminary Draft)

GRAYWOLF® SENSING SOLUTIONS

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Example Screens

Live Graph

REVIEW GRAPH >
Conference Room 2
DSII 09-1098 >
CO2 ppm >   TVOC ppb >
8 hours >

Live Display

LIVE >
DSII 09-1501

TVOC	81	ppb
CO2	756	ppm
CO	0.2	ppm
O3	0.00	ppm
NO2	0.01	ppm
HCHO	16	ppb
RH	26.7	%RH
Temp	23.1	°C
ΔP	-0.2	Pa

TREND LOG   Executive Office   SNAP LOG

Tabular Display

LIVE TABLE >
21 - MAR - 2023

	TVOC µg/m3	NH3 ppm	SO2 ppm >
08:45:00	1251.1	2.1	0.89
08:46:00	1257.3	2.1	0.88
08:47:00	1258.0	2.2	0.87
08:48:00	1263.7	2.2	0.86
08:49:00	1266.4	2.2	0.86
08:50:00	1270.6	2.2	0.83
08:51:00	1281.9	2.1	0.84
08:52:00	1287.2	2.1	0.80
08:53:00	1290.5	2.1	0.81

AUDIO >
Utility Room
Record audio

Audio Notes

LOCATIONS >
St Joseph Hospital >
ACME Shopping Plaza >
6 Research Dr
  Conference Room
  Reception
  Executive Office
PS 203 >

Descriptive Data File Names

LIVE, GRAPH, TABULAR, LOCATIONS, TREND LOG, SNAP LOG

AdvancedSense XM Environmental Test Meter

The AdvancedSense XM is the next generation of these purpose-built meters, now running very advanced, yet very user-friendly Wolf OS™ application software. The same popular, rugged form-factor, but with all-new, cutting-edge electronics. For 25 years, GrayWolf has transformed the way that environmental measurements are taken. Display, data-log and annotate (on-site) a broad range of parameters with an accurate, highly-reliable instrument.

- Simultaneously connect 1 or 2 GrayWolf DirectSense® II probes with up to 8 sensors per probe plus a multi-channel, exceptionally reliable particulate meter (PM1, PM2.5, PM10 and more)

- Available sensors: TVOCs, CO2, CO, O3, NH3, HCHO, H2S, NO, NO2, SO2, Cl2, O2, EtO, HCN, H2, HF, HCl, F2, AsH3, SiH4, %RH, °C/°F, differential pressure, airspeed, dewpoint and other parameters

- Backlit color touch screen with virtual keyboard (for text input such as descriptive data file names and on-site text notes)

- Bluetooth Low Energy for wireless connection to DirectSense II probes and particle meters (as a standard alternative to cabled connection)

- WiFi for optional GrayWolfLive® remote data access and for emailing data

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

  - Microphone for audio documentation of surveys
  - Text notes, audio notes and more automatically 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

ADVANCEDSENSE® XM

Environmental Test Meter Plus

SPECIFICATIONS:
(for additional sensor/probe specifications refer to GrayWolf's DirectSense II, IAQ, TOX, TVOC, AIR, pitot tube and and thermocouple brochures graywolfsensing.com/product-literature/)

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
Wireless Network:	Wi-Fi 802.11 b/g/n 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:	-10°C to 50°C (15°F to 122°F), 0 to 100 %RH non-condensing

Connectors:

2 x Rugged push-pull sockets for GrayWolf DirectSense probes (the AdvancedSense XM will support up to 4 x DirectSense probes with Y-adapters)

1 x Rugged push-pull socket for particulate meters or RH-AS2 direct-connect °C/°F/%RH probe

2 x sub-mini type K thermocouple temperature sockets. Range -80 to 1100°C (-110 to 2010°F)

1 x Rugged push-pull top socket for hotwire air velocity probes (AS-201/AS-202)

1 x USB-C socket. A USB-C to USB-A download cable is 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 XM can power DirectSense II 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 wall charger (US, EU, UK, AU plugs included)

Not all Wolf OS software app features shown may yet be available, but can be downloaded FREE when released. All specifications are subject to change without further notice.

Built-in Sensors:

	Optional 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

Optional Differential Pressure has exceptional low (and high) range accuracy and auto-zeros (every 2 minutes by default but zeroing frequency is user adjustable to 5 minutes or OFF)

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

WolfSense® PC data transfer and analysis software supplied as standard

Measure Reliably   Report Efficiently

Front View
Stylus
Stylus
Top View
K-thermocouple temperature inputs (standard)
Rugged rubber overgrips
Color touch screen (w/ backlight)
Input for hotwire air velocity probes
USB-C Output to PCs (cable included as standard)
Ports for exceptionally accurate, differential pressure (optional)
7 pin Lemo for Particulates (or GrayWolf RH-AS2 %RH & °C/°F probe)
Bottom View
View button (changes screen view)
Power (on/off) button
12V DC input from 100/240V AC charger
8 pin Lemo inputs for GrayWolf DirectSense II probes
AC charge indicator
Microphone (attach audio notes directly to data files)
96mm 3.8"

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

Speaker
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 hand-strap/belt-loop. ▼

▲ **PCC-20A** Hardshell case holds AdvS XM, 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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