

Advanced Environmental Instrumentation

With the right sensors for the application



✓ Surveyed

✓ Datalogged

✓ Documented

✓ Reported



DIRECTSENSE[®] XM

Advanced Environmental Probe/Logger



GRAYWOLF[®]
SENSING SOLUTIONS
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WWW.GRAYWOLFSENSING.COM



User Swappable
Smart Sensors

Up to 8 Sensors
in one Probe

GRAYWOLF SENSING SOLUTIONS

VERSATILE PRODUCTS, HIGHLY
RELIABLE MEASUREMENTS



CONTINUOUS WALL-MOUNTED MONITORING



SHORT/LONG-TERM
TREND LOGGING



PORTABLE TESTING,
WALK-THRUS

For over 25 years, GrayWolf has been transforming the way that environmental measurements are taken. Acting on the feedback from our extensive list of customers for IAQ, IH, R&D, HVAC, Green Building, and other applications, we continue to expand the highly advanced features of our range of very smart probes* and compatible platforms.



- The DirectSense XM's Bluetooth, Wi-Fi and/or cable connections enable a choice of platforms; GrayWolf manufactured, purpose-built meters/monitors, Windows/Android/iOS devices, and/or remote to the GrayWolfLive[®] Cloud app.
- Up to eight (8) sensors per probe; %RH, °C/°F plus up to six (6) gas sensors.
- Choose from TVOCs, CO₂, HCHO, CO, O₃, NO₂, NH₃, O₂, H₂S, NO, SO₂, Cl₂, HCN, HF, HCl, H₂, F₂, and other gases.
- Connect one or multiple DSXM probes, plus a particle meter. Up to 32 parameters simultaneously.
- Internal fans increase sensor response time, remove component generated heat.
- Rechargeable (or powered via cable connected meter/tablet). Charging cradle also operates as a desk-stand or wall-mount fixture.
- Months of datalogging to DSXM's on-board memory and/or virtually unlimited data storage, local display, and broadly enhanced features via connected platforms.
- Sensors are truly plug & play, easily swapped by users. Exceptional calibration accuracy/repeatability across platforms.



*US Patent 10,348,834 SELF CONFIGURING SMART PROBE



DIRECTSENSE[®] XM

Advanced Environmental Probes

SPECIFICATIONS:

General:

Dimensions: Probe: 83mm (3.3in.) w. x 295mm (11.6in.) h. x 55mm (2.2in.) d.
Cradle: 93mm (3.7in.) w. x 80mm (3.2in.) h. x 93mm (3.7in.) d.

Construction: Probe: Rugged polycarbonate plastic with rubberized handle grip.
Cradle: Rugged polycarbonate plastic.

Weight: Probe: not including sensors which are ~10 gr (0.4oz.) each; 460gr (1lb)
Cradle: not including AC adapter; 180 gr (6.4 oz.)

Wireless: Bluetooth LE (4.2) and Wi-Fi (IEEE 802.11 b/g, 2.4GHz) WolfRadio module standard (optionally available removed). Bluetooth LE connects to AdvancedSense XM, Android, iOS, and Win 10/11 devices. Wi-Fi relays probe readings to the Cloud via GrayWolfLive.

Internal Data Storage: 1MB (for 8 parameters >12 days of data @ 1 minute intervals, >60 days @ 5 min., >180 days @ 15 min.). Far greater storage when logging to AdvancedSense XM, Android, iOS, Cloud, etc. Internal DSXM logging defaults to "on", providing backup data when also logging to an external platform.

Mounting: 1/4" - 20 tpi brass thread for belt clip, tripod, etc.
Also M4 brass thread for security thumb-screw.

Operating Range: -10°C to 50°C (15°F to 122°F), 0 to 100 %RH non-condensing (certain specific sensors have a more limited range).

Connectors:

Probe: 1 x10 pin rugged push-pull socket for cable connection to AdvS meter or WIN tablet/PC.
Cradle: 1 x10 pin rugged push-pull socket and 1 x 2.1mm 12VDC power socket.

Power:

Battery: 6600 mAh Lithium Ion rechargeable

Battery Life: 12+ hours typical with PID and NDIR sensors installed, no wireless.
Bluetooth or Wi-Fi ON reduces battery life ~20%.

Cabled probes may be continuously powered from AdvS meter or tablet/PC.

Recharge time: 3 hours typical (in cradle).

Red/green front cradle LED displays charging/fully charged status.

Power supply: 100/240V AC wall charger (with US, EU, UK, AU plugs & 3m charger extension cable).

All specifications are subject to change without further notice.

Model	Basic Description
DSXM-3	DirectSense XM probe/logger with smart °C/°F, %RH sensors and one (1) available socket for smart PID, NDIR or EC sensor.
DSXM-5	DirectSense XM probe/logger with smart °C/°F, %RH sensors and three (3) available sockets for smart PID, NDIR or EC sensors.
DSXM-8	DirectSense XM probe/logger with smart °C/°F, %RH sensors and six (6) available sockets for smart PID, NDIR or EC sensors.
DSXM-3/5/8-KIT	The kits include the relevant probe, charging cradle, with wall-mount bracket, AC adapter with 3m extension cable, sensor insertion tool, and hex screwdriver.

Accessories

ACC-BELTCL-2	Rigid belt clip with custom vertical fitting for DSXM probes.
ACC-BELTCL-3	Rotating belt clip with easy clip/detach function for easy handheld use.
ACC-DSII-FLANGE	Flange and bracket to secure DSXM probes into test chambers, ducts, etc.
AD-DSIIL8-1M	1m cable connects DSXM probes via rugged push-pull connectors to AdvancedSense meters.
AD-DSIUSB-1M	1m cable connects DSXM probes via USB-A to Tablets/Laptops/PCs.
CA-HD4-A1	A1 series smart sensor (DirectSense XM) calibration cap.
GWLive-ST	GrayWolfLive cloud app. Allows interactive WiFi cloud datalogging (plus access to remote platform/probe logged data). View realtime or logged data as tables, graphs, gauges, live readings (from one or virtually an unlimited number of DSXM probes). Optional GWLive-Alerts hi/low alarms.
PCC-22X	Hard-shell carry case for GrayWolf supplied meter/platform(s) and up to 2 x DSXM probes, plus accessories.

Various security cases are also available that allow 1 or 2 DSXM probes to have sensors exposed while securing probes and devices. View at: <https://graywolvesensing.com/accessories/>



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Measure Smart

Front View



Report Efficiently

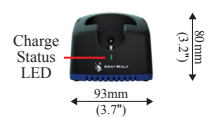
Side View

Back View

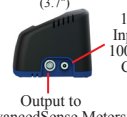


ACC-PWR-DSII-CRDL CHARGING CRADLE (Included)

Front View



Side View



Back View

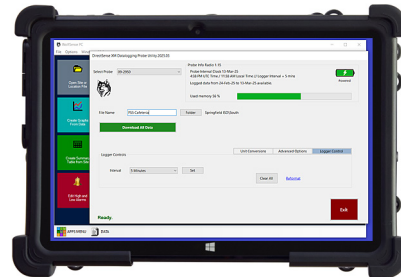


25+ Available Plug-and-Play Sensors:

TVOCs (5 PID ranges), CO₂ (NDIR), Electrochemicals; O₃, CO, HCHO, NO₂, NH₃, Cl₂, SO₂, O₂, NO, H₂S, HCl, HCN, H₂, AsH₃, ClO₂, B₂H₆, EtO, F₂, HF, COCl₂, PH₃, SiH₄ and more coming. Sensor specifications are detailed on a separate data sheet. A smart °C/°F, %RH combo sensor (Pt100 and capacitive) included as standard.

Connect to a choice of platforms:

Rugged, purpose-built meters e.g. GrayWolf's AdvancedSense XM, GrayWolf supplied rugged Android devices or WIN tablets (as pictured below). Or use your own Android/iOS/Linux/Windows devices, and/or GrayWolfLive connection to the Cloud. JSON option for OEM applications.



DSXM Download Tool:

Download readings logged on the DSXM to the free WolfSense[®]PC Download Tool (WIN 10/11), or soon via GrayWolf's Android/iOS Apps.



AD-DSIIL8-1M
1 meter cable connects to AdvancedSense meters. AD-DSIUSB-1M USB-A version for WIN tablets/laptops/PCs.

CA-HD4-A1 ▶ calibration cap.



ACC-BELTCL-2 ▶ belt clip.



Optional belt clips ▶ accommodate hands-free surveys for 1 or multiple probes.

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