Advanced Environmental Instrumentation
With the right sensors for the application

✓ Surveyed ✓ Documented ✓ Reported

DIRECTSENSE® II
Advanced Environmental Probes

User Swappable
Smart Sensors

Up to 8 Sensors
in one Probe

GRAYWOLF SENSING SOLUTIONS
Versatile Products, Highly Reliable Measurements

Continuous Monitoring

Short/Long-Term Trend Logging

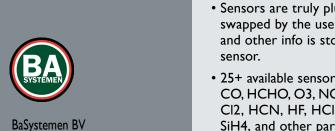**Portable Testing, Walk-Thrus**

For 25 years, GrayWolf has been transforming the way that environmental measurements are taken. Acting on the feedback from our many worldwide IAQ, HVAC, IH and Green Building customers, we recently introduced a range of patented* smart probes. We've been adding even more highly advanced DSII probe features ever since.

- Connect to GrayWolf AdvancedSense meters, Android/iOS devices, Windows tablets/laptops, and/or via Wi-Fi to the Cloud. Your choice!

- Sensors are truly plug & play, easily swapped by the user. Calibration and other info is stored on each sensor.

- 25+ available sensors; TVOCs, CO2, CO, HCHO, O3, NO2, NH3, O2, H2S, NO, SO2, Cl2, HCN, HF, HCl, H2, F2, ClO2, EtO, AsH3, SiH4, and other parameters.

- Internal fan increases sensor response and eliminates sensor generated heat.

- Up to eight (8) sensors per probe; %RH, temperature plus up to six gas sensors.

- Connect one or multiple probes, plus a particle meter, via wireless (and/or cable for AdvancedSense or WIN devices). Up to 32 parameters simultaneously.

- Bluetooth and Wi-Fi built into the probe enables local connection to iOS, Android devices, and/or GrayWolf's AdvSXM and/or remote connection via the GrayWolfLive® Cloud app.

- Rechargeable (or powered via cable connected meter/tablet). Charging cradle also operates as a stand or wall-mount fixture.

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

DIRECTSENSE® II

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 each; 460gr (1lb) Cradle: not including AC adapter; 180 gr (6.4 oz.)
Wireless:	Bluetooth and Wi-Fi (IEEE 802.11 b/g, 2.4GHz) WolfRadio module standard (optionally available removed). Bluetooth connects to AdvancedSense, Android, iOS and Win8/10/11 devices. Wi-Fi relays probe readings to the Cloud via GrayWolfLive.
Mounting:	¼" - 20 tpi brass thread for belt clip, etc. (& for included mini tripod/stand). 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 & 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 ext. cable).

All specifications are subject to change without further notice.

Model	Basic Description
DSII-3	DirectSense II probe with smart °C/°F, %RH sensors and 1 available socket for smart PID, NDIR or EC sensor.
DSII-5	DirectSense II probe with smart °C/°F, %RH sensors and 3 available sockets for smart PID, NDIR or EC sensors.
DSII-7	DSII probe with °C/°F, %RH and 5 sockets for smart PID or EC sensors (unlike other DSII probes, no CO2, no HCHO, no wireless).
DSII-8	DirectSense II probe with smart °C/°F, %RH sensors and 6 available sockets for smart PID, NDIR or EC sensors.
DSII-3/5/8-KIT	The kits include the relevant probe, charging cradle, AC adapter, mini-tripod, sensor insertion tool, hex screwdriver, and (unless specified for exclusion) a WiFi/Bluetooth radio card.

Accessories	
ACC-BELTCL-2	Rigid belt clip with custom vertical fitting for DSII probes.
ACC-BELTCL-3	Rotating belt clip with easy clip/detach function.
ACC-DSII-FLANGE	Flange and bracket to secure DSII probes into ducts, test chambers, etc.
AD-DSIIL8-1M	1m cable for DSII probes to connect to AdvancedSense meters.
AD-DSIIUSB-1M	1m cable for DSII probes to connect to Tablets/Laptops/PCs.
CA-HD4-A1	A1 series smart sensor (DirectSense II) calibration cap.
GWLive-ST	GrayWolfLive cloud app. Allows remote, interactive Wi-Fi access (via Windows, Android, or iOS devices). View data as tables, graphs, gauges, live readings and more (from one or virtually an unlimited number of DSII probes). Optional GWLive-Alerts hi/low alarms.
PCC-22DSII-2	Hard-shell case for 1 or 2 x DSII Probes. Also fits charging cradles & other accessories.
PCC-22DSII-U	Hard-shell case for DSII. Also fits GrayWolf supplied meter/platform, AS201/202A airspeed probe, and accessories.

✓Measure Smart   ✓Report Efficiently

Front View — Side View — Back View

- Connectivity status LED
- Snap-Log Button
- Power (on/off) Button
- 83mm (3.3")
- 55mm (2.2")
- 295mm (11.6")
- 2.5mm Hex Release Screw (for front hatch access to sensors).
- ¼" - 20 tpi Brass Insert for tripod/belt clip/ etc.
- Insert for M4 Locking Thumb Screw

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

Front View — Side View — Back View

- Charge Status LED
- 93mm (3.7")
- 80mm (3.2")
- 93mm (3.7")
- 12V DC Input from 100/240 AC Charger
- Output to AdvancedSense Meters or Tablet/PC Computers
- Locking Thumb Screw
- Removable Wall-Mount Plate

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 plus exotics; AsH3, ClO2, B2H6, EtO, F2, HF, COCl2, PH3, SiH4 and more coming. Some are available as B series (1 max. per probe). Sensor specifications are detailed on a separate data sheet. A smart °C/°F, %RH combo sensor (Pt100 and capacitive) is included as standard.

◄ DSII-3

DSII-5 ►

◄ DSII-8

AD-DSIIL8-1M 1 meter cable connects to AdvancedSense meters. **AD-DSIIUSB-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.