

# Advanced Environmental Instrumentation

With the right sensors for the application



✓ Surveyed

✓ Documented

✓ Reported

Choice of Platforms



User Swappable Smart Sensors



## DIRECTSENSE® II

Advanced Environmental Probes



Charging Stand/  
Wall-Mount

For 20 years, GrayWolf has been transforming the way that environmental measurements are taken. And now we have acted on the feedback from our many worldwide IAQ, HVAC, IH and Green Building customers to introduce a range of very *smart* probes with highly advanced features.

- Up to eight (8) sensors per probe.
- Sensors are plug-and-play, easily swapped by the user. Calibration and other info is stored on each sensor.
- 25+ available sensors; TVOCs, CO<sub>2</sub>, %RH, °C/°F, CO, O<sub>3</sub>, NO<sub>2</sub>, NH<sub>3</sub>, O<sub>2</sub>, H<sub>2</sub>S, NO, SO<sub>2</sub>, Cl<sub>2</sub>, HCN, HF, HCl, H<sub>2</sub>, ClO<sub>2</sub> and many other parameters.
- Connect to GrayWolf AdvancedSense meters or to Windows tablets/laptops **via cable or via Bluetooth wireless** (included as standard); *your* choice.
- Connect one probe, two... up to four probes to platforms simultaneously.
- Connect to remote devices via GrayWolfLive™ and internal WiFi.
- Internal fan increases sensor response and eliminates sensor generated heat.
- Rechargeable (or powered via meter/ tablet). Charging cradle also operates as a wall-mount bracket or stand.
- Alternatively mount on included mini-tripod.



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# 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 for connection to AdvancedSense Pro or to Windows tablet, standard.  
Optional IEEE 802.11 b/g/n Wi-Fi Module to directly relay probe readings to Cloud.

**Mounting:** 1/4" - 20 tpi brass thread for belt clip, etc. (& for included mini tripod/stand).  
Also M3 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 x 10 pin Lemo socket for cable connection to AdvancedSense meter or tablet/laptop.  
Cradle: 1 x 10 pin Lemo socket and 1 x 2.1mm 12VDC power socket.

#### Power:

**Battery:** 6600 mAh Lithium Ion rechargeable

**Battery Life:** 35+ hours typical with PID & NDIR sensors installed, fan on.  
80+ hours w/o PID, NDIR. Significantly longer with fan off.

**Recharge time:** 3 hours typical (in cradle). Probes may be continuously powered from  
meter/tablet/PC, but will not recharge.  
Red/green front cradle 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**

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-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, but additionally include charging cradle, AC adapter, 1m connection cable, mini-tripod and belt clip.

\*All DSII Probes have a built-in fan, Bluetooth wireless and come with a sensor insertion tool and hex screwdriver.

### Accessories

ACC-DSII-FLANGE	Flange and bracket to secure DSII probes into ducts, test chambers, etc.
ACC-FIL6-DSII	Temporary filters to protect DSII probe sensors in dusty/dirty environments.
ACC-HD9	Hood for use when pumping samples across a DSII probe.
AD-DSIIL8-1M	1m cable for DirectSense II probes to connect to AdvancedSense meters.
AD-DSIIUSB-1M	1m cable for DirectSense II probes to connect to Tablets/Laptops/PCs.
CA-HD4-A1	A1 series smart sensor (DirectSense II) calibration cap.
CA-HD5-B1	B1 series smart sensor (DirectSense II) calibration cap.
GWLIVE-ST	1 year access to GrayWolfLive. Allows remote, interactive WiFi access (via PCs, iPads, Android devices, etc.).
GWLIVE-Alerts	1 year access to GrayWolfLive. This version also sends alerts (via text and/or e-mail).
PCC-20A/T	Hard-shell Security case with foam cutouts for AdvancedSense or tablet and sensor exposure for 1x DSII probe.
PCC-25A/T	Hard-shell Security case with foam cutouts for AdvancedSense or tablet and sensor exposure for 2x DSII probes.
PCC-35P/36P	Hard-shell Security case with foam cutouts for AdvancedSense or tablet and sensor exposure for 1x DSII probe plus a particulate meter.

### Measure Smart

### Report Efficiently



### 25+ Available Plug-and-Play Sensors:

TVOCs (5 PID ranges), CO<sub>2</sub> (NDIR), Electrochemicals; O<sub>3</sub>, CO, NO<sub>2</sub>, NH<sub>3</sub>, Cl<sub>2</sub>, SO<sub>2</sub>, O<sub>2</sub>, NO, H<sub>2</sub>S, HCl, HCN, H<sub>2</sub>, plus exotics; AsH<sub>3</sub>, ClO<sub>2</sub>, B<sub>2</sub>H<sub>6</sub>, F<sub>2</sub>, EtO, F<sub>2</sub>, HF, COCl<sub>2</sub>, PH<sub>3</sub>, SiH<sub>4</sub>. 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.

