

Advanced Environmental Instrumentation Harnessing the Power of Mobile Computing



GrayWolf is transforming how to Measure, Data-log and Document worker exposure levels and indoor air quality parameters. The AdvancedSense and DirectSense TOX are powerful environmental data collection tools; intuitive and Easy-To-Use.

- Choose from SO₂, NO₂, NO, CO, H₂S, HCN, EtO, Cl₂, O₂, O₃, NH₃, HCl, H₂, SiH₄, AsH₃, PH₃... and more
- Up to 5 electrochemical gas sensors (plus °F / °C) per probe
- Connect multiple probes simultaneously (up to 4)
- "Snap-Shot" instantaneous data capture and long-term trending

- Stores measured data along w/calibration history, text notes, audio notes, user created field note templates... and more
- On-board measurement tips, industry guidelines and help files
- Remote Access any WiFi enabled platforms via optional GrayWolfLive[™]
- Cal checks, and extensive additional features are highly intuitive and Easy-To-Use

Meters

est

Gas

Toxic

Enviro Technology Services L

part of 🌄 CuraTerra

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Choose Your Platform:

AdvancedSense Handheld Embedded PC Meter



WolfPack[®] Modular Area Monitor



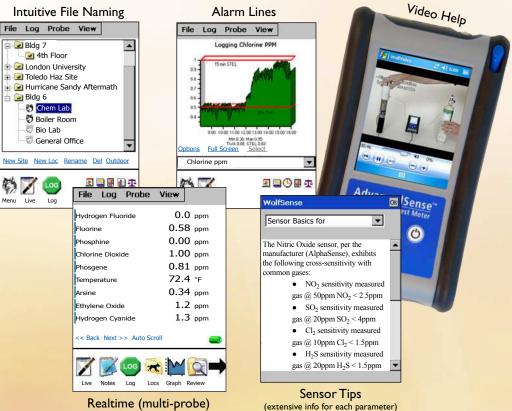
GrayWolf Supplied Tablet Entry level platform with great standard features (built-in camera, WiFi)



Or Use Your Own Windows PC as the instrument platform Remote Data Access to, and email/text alerts from, any WiFi enabled platforms via optional GrayWolfLive™

Advanced Toxic Gas Measurement

Example AdvancedSense/WolfPack[®] Screens



Realtime (multi-probe)

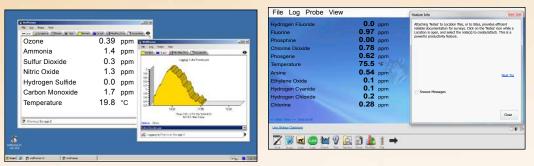
Documenting and data-logging gas parameters has never been easier. Provide a descriptive name for files using the virtual keyboard. Record your readings as snap-shot data captures, or as trend logs over time. On-board educational info.

Efficiently attach notes, in-situ (or after-the-fact) direct to data files:

- Text
- Photos/Video
- Drawings
- Custom

- Audio
- Events (time-tagged text)
- Template "Field Forms"
- Auto-Fill (data & text)

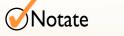
Example WIN 8/7/XP Screens



GrayWolf provides embedded computer based meters and Windows tablets that are ideal for the application; or connect probes to your own PC.

GrayWolf's TOX kits come with WolfSense PC software for data transfer, analysis, graph/report generation and/or simple export to Excel.



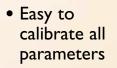




12.7" (322 mm)







- Calibration history stored in probe
- CO & H₂S available in a single sensor
- Allows up to 5 gas sensors in one probe
- Plus Temperature

Display units as:

- **PPB**
- PPM
- µg/m³
- mg/m^3 (mass readings are auto compensated w/optional AdvancedSense barometric pressure sensor)

TG-502 VOCs (PID) plus 3 specific gases, %RH, and

temperature



TG-50I

Select up to 5 gas sensors in one probe (plus °F/°C):

Note: Sensors are factory installed (this optimizes their L.O.D.s). Sensors may be added or changed at a later time by GrayWolf or by an authorized cal lab.

- Sulfur Dioxide (SO₂)
- Nitrogen Dioxide (NO2)
- Nitric Oxide (NO)
- Carbon Monoxide (CO)
- Hydrogen Sulfide (H₂S)
- Hydrogen Cyanide (HCN)
- Hydrogen Chloride (HCl)
- Hydrogen Fluoride (HF)
- Ethylene Oxide (C₂H₄O)
- Chlorine Dioxide (ClO₂)

- Ozone (O₃)
- Oxygen (O₂)
- Ammonia (NH₃)
- Chlorine (Cl₂)
- Hydrogen (H₂)
- Fluorine (F₂)
- Phosphine (PH₃)
- Arsine (AsH₃)
- Silane (SiH₄)
- Phosgene (COCl₂)

EC-202

Any I (one) sensor in one probe, plus °F/°C



FM-801 Formaldehyde (ppb HCHO)

Interface these meters to GrayWolf platforms; and/or use as stand-alones

PC-3016A **6-Channel Particle** Meter





IQ-610 Carbon Dioxide, Carbon Monoxide, ppb VOCs, %RH, °F/°C plus one additional gas

AS-201 Air Velocity probe

ADVANCEDSENSE[®] DIRECTSENSE

Toxic Gas Test Meters

SPECIFICATIONS: TG-501, EC-202	Range/ Resolution	Limit of Detection
Gas	(ppm)	(ppm)
Standard Sensors		
Ammonia (NH3) Standard range sensor	0.0 to 100.0	<1.0
Ammonia (NH3) High range sensor	0 to 1000	12
Carbon Monoxide (CO solo)	0.0 to 750.0	0.5
Carbon Monoxide (CO combo w/H ₂ S sensor)	0.0 to 500.0	1.0
Chlorine (Cl ₂)	0.00 to 20.00	0.02
Hydrogen (H₂)	0 to 1000	2.0
Hydrogen Chloride (HCl)*	0.0 to 30.0	0.7
Hydrogen Cyanide (HCN)	0.0 to 30.0	0.2
Hydrogen Sulfide (H₂S solo)	0.00 to 50.00	<0.03
Hydrogen Sulfide (H ₂ S combo w/CO sensor)	0.0 to 200.0	0.5
Nitric Oxide (NO)*	0.0 to 250.0	0.2
Nitrogen Dioxide (NO2)	0.00 to 30.00	0.02
Oxygen (O ₂)	0.0 to 25.0%	0.2%
Ozone (O ₃)	0.00 to 1.00	0.02
Sulfur Dioxide (SO ₂)	0.0 to 30.0	<0.1
Exotic Sensors		
Arsine (AsH ₃)	0.00 to 1.00	0.02
Chlorine Dioxide (CIO ₂)	0.00 to 1.00	0.02
Diborane (B₂H₄)	0.00 to 1.00	0.03
Ethylene Oxide (C₂H₄O)*	0.0 to 20.0	0.3
Fluorine (F ₂)	0.00 to 1.00	0.02
Hydrogen Fluoride (HF)	0.00 to 10.00	<0.1
Phosgene (COCl ₂)	0.00 to 1.00	0.02
Phosphine (PH ₃)	0.00 to 5.00	0.05
Silane (SiH₄)	0.00 to 50.00	0.05
Temperature: (PT100) Accuracy: ±0.3°C		
Range: -10.0°	Range: -10.0° to 160.0°F (-25.0° to +70.0°C)	
Operating Range: 0 to 98%	RH (non-condensing), -2	20° to 50°C
Specific gas sensors may have a reduced operating range		
Probe Dimensions: 2in. (2in. (5cm) dia. x 12.5in. (30cm) Igth.	
Weight (probe):	w/batteries Ilb. 10oz. (0.7kg)	
Power (probe): 2 x D cel	2 x D cells; typical battery life 1500 hrs.	
Meter/Mobile PC battery life varies by make and model		
PC Software Requirements: Windows 8/7/XP		

*HCl, NO, EtO; up to 2, but not all 3 may be installed into a single TG-501 probe SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT FURTHER NOTICE

- All gas sensors are electrochemical. One per EC-202 or up to 5 per TG-501 may be included. Typical sensor life, sensor drift and response times vary by sensor.
- Probe wall mounting brackets, automated reporting software, and many other accessories are available from GrayWolf. View them on our website at accessories.graywolfsensing.com.

MEASURE SMART

GRAYWOLF

REPORT EFFICIENTLY



</p Multi-Probe Security Case (shown at left w optional ACC-BRKI brackets for external HCHO or particulate meters)

ACC-TPDI tripod shown w/ ACC-MNT2P dual mount and ACC-MNTI & ACC-MNT3 meter mounts. A soft carry case (PCC-TPDL) is also included with

tripod kit





PCC-05IQ probe pouch. Neck pouches are also available for tablet, AdvancedSense or Pocket PC



▲ CA-GSXX Gas Calibration Kit. Specific calibration gases are available in various portable cylinder sizes

ACC-APUMPI Portable Air Sampling Pump with belt clip ►

 AdvancedSense TOX kits include an AdvancedSense meter, DirectSense TOX TAB kits include a tablet PC. These complete kits also come with WolfSense PC desktop data transfer software, hardshell security case, probe/meter pouches and more. Contact GrayWolf for details.



CA-HD2 Calibration Hood May alternatively be





ACC-FIL6 Probe Filters for dirty environments

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