ADVANCEDSENSE® TOX
DIRECTSENSE® TOX

Toxic Gas Test Meters

Advanced Environmental Instrumentation

Harnessing the Power of Mobile Computing

✓ Surveyed ✓ Documented ✓ Reported

Example Screens

Realtime

File	Log	Probe	View
Hydrogen Chloride	0.2	ppm	
Chlorine	0.64	ppm	
Oxygen	20.8	%	
Sulfur Dioxide	0.1	ppm	
Hydrogen	0	ppm	
Temperature	24.4	°C	

Menu Snap Live: Fabrication Floor

Attached Audio Note
Probe Calibration Info
Attached Photo(s)
Attached Text Note

Snap-Shot Log

File	Log	Probe	View
Ozone	0.54	mg/m3	
Ammonia	1.3	mg/m3	
Sulfur Dioxide	1.3	mg/m3	
Nitric Oxide	2.0	mg/m3	
Hydrogen Sulfide	0.15	mg/m3	
Temperature	22.9	°C	
Barometric	754.2	mmHg	

Menu Snap Snap Shot log to 'Lab 4'

Click the SNAP icon to record measurements, time, date and detailed location name

Trend Logging

File Log Probe View

Logging: Ammonia ppm(1)

2.5 2 1.5 1 0.5 0

9:14 9:19 9:25 9:29 9:35

15min STEL 1.10: 8-hr TWA 0.00
Min 0.1: Max 2.1 ppm

Options Full Screen Select

Ammonia ppm(1)

Menu Live Log 'Chem lab' 30 secs

Log at intervals of your choice. Optionally display trend graphs on meter

On-Board Docs

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 SO_2, NO_2, NO, CO, H_2S, HCN, EtO, Cl_2, O_2, O_3, NH_3, HCl, H_2, SiH_4, AsH_3, PH_3... 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

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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)

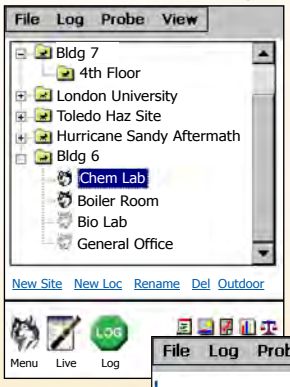
Or Use Your Own Windows PC as the instrument platform

Remote Data Access to, and email/text alerts from, any WiFi enabled platforms via optional **GrayWolfLive™**

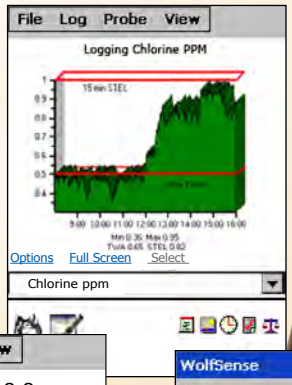
Advanced Toxic Gas Measurement

Example AdvancedSense/WolfPack® Screens

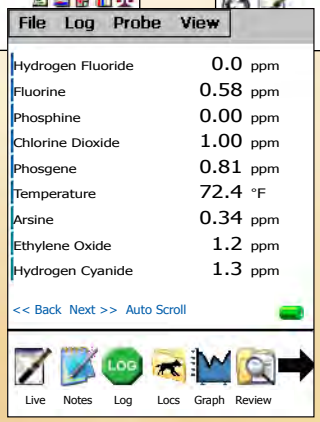
Intuitive File Naming



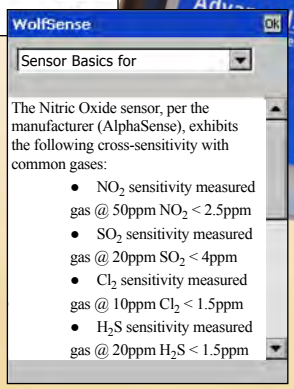
Alarm Lines



Video Help



Realtime (multi-probe)



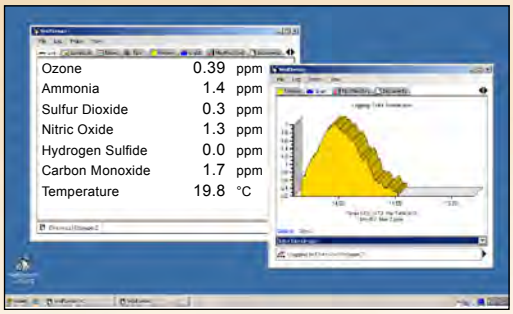
Sensor Tips
(extensive info for each parameter)

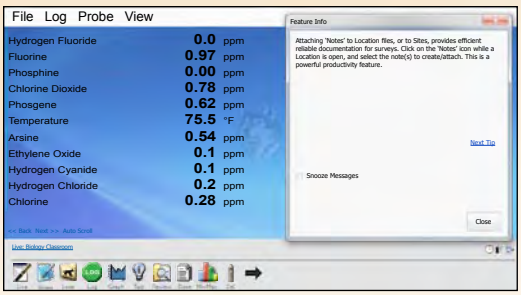
Documenting and data-logging gas parameters has never been easier. Provide a descriptive name for files using the virtual keyboard. Record your readings as snap-shot data captures, or as trend logs over time. On-board educational info.

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

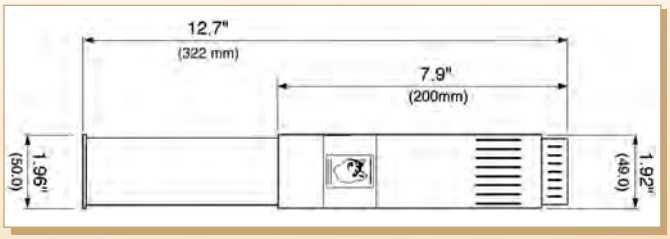




GrayWolf provides embedded computer based meters and Windows tablets that are ideal for the application; or connect probes to your own PC.

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

✓Display ✓Notate ✓Data Log ✓Organize ✓Report



- Easy to calibrate all parameters
- Calibration history stored in probe
- CO & H_2S available in a single sensor
- Allows up to 5 gas sensors in one probe
- Plus Temperature

TG-501

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 (SO_2)
- Nitrogen Dioxide (NO_2)
- Nitric Oxide (NO)
- Carbon Monoxide (CO)
- Hydrogen Sulfide (H_2S)
- Hydrogen Cyanide (HCN)
- Hydrogen Chloride (HCl)
- Hydrogen Fluoride (HF)
- Ethylene Oxide (C_2H_4O)
- Chlorine Dioxide (ClO_2)
- Ozone (O_3)
- Oxygen (O_2)
- Ammonia (NH_3)
- Chlorine (Cl_2)
- Hydrogen (H_2)
- Fluorine (F_2)
- Phosphine (PH_3)
- Arsine (AsH_3)
- Silane (SiH_4)
- Phosgene ($COCl_2$)

Display units as:

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

EC-202

Any 1 (one) sensor in one probe, plus °F/°C

FM-801

Formaldehyde (ppb HCHO)

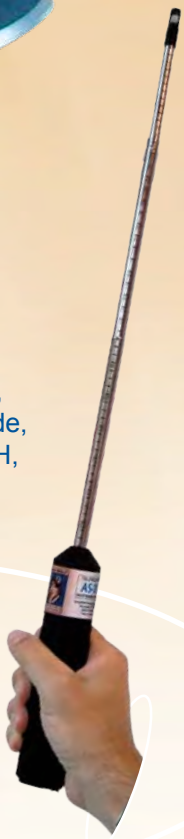
Interface these meters to GrayWolf platforms; and/or use as stand-alones

TG-502

VOCs (PID) plus 3 specific gases, %RH, and temperature

IQ-610

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



AS-201

Air Velocity probe

PC-3016A

6-Channel Particle Meter

PM-205

Particulate Concentration

GRAYWOLF SENSING SOLUTIONS

AdvancedSense® DirectSense® TOX

Toxic Gas Test Meters

✓Measure Smart ✓Report Efficiently

SPECIFICATIONS: TG-501, EC-202	Range/ Resolution (ppm)	Limit of Detection (ppm)
Gas		
Standard Sensors		
Ammonia (NH_3) Standard range sensor	0.0 to 100.0	<1.0
Ammonia (NH_3) High range sensor	0 to 1000	12
Carbon Monoxide (CO solo)	0.0 to 750.0	0.5
Carbon Monoxide (CO combo w/H_2S sensor)	0.0 to 500.0	1.0
Chlorine (Cl_2)	0.00 to 20.00	0.02
Hydrogen (H_2)	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 (H_2S solo)	0.00 to 50.00	<0.03
Hydrogen Sulfide (H_2S combo w/CO sensor)	0.0 to 200.0	0.5
Nitric Oxide (NO)*	0.0 to 250.0	0.2
Nitrogen Dioxide (NO_2)	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 (ClO_2)	0.00 to 1.00	0.02
Diborane (B_2H_4)	0.00 to 1.00	0.03
Ethylene Oxide (C_2H_4O)*	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 (SiH_4)	0.00 to 50.00	0.05
Temperature: (PT100)		Accuracy: ±0.3°C
		Range: -10.0° to 160.0°F (-25.0° to +70.0°C)
Operating Range:		0 to 98%RH (non-condensing), -20° to 50°C
		Specific gas sensors may have a reduced operating range
Probe Dimensions:		2in. (5cm) dia. x 12.5in. (30cm) lgth.
Weight (probe):		w/batteries 1lb. 10oz. (0.7kg)
Power (probe):		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.

◀ **PCC-15** ▶ Multi-Probe Security Case (shown at left w/ optional **ACC-BRK1** brackets for external HCHO or particulate meters)

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

ACC-TPD1 ▶ tripod shown w/ **ACC-MNT2P** dual mount and **ACC-MNT1 & ACC-MNT3** meter mounts. A soft carry case **(PCC-TPDL)** is also included with the **ACC-TPDL-KIT** tripod kit

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

▶ **CA-HD2** Calibration Hood

May alternatively be used with air pump to draw sample across sensors

ACC-APUMP1 Portable Air Sampling Pump with belt clip ▶

ACC-FIL6 Probe ▲ Filters for dirty environments

- **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.

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