

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 with text notes, graphic notes, audio notes, user created field note templates... and more
- On-board measurement tips, industry guidelines and help files
- Calibration history and data file statistics auto-organized, stored with every data file
- Cal checks, and extensive additional features are highly intuitive and Easy-To-Use

Toxic Gas Test Meters

GRAYWOLF[®] SENSING SOLUTIONS PH. 1-203-402-0477 FAX: 1-203-402-0478

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Choose Your Platform:

AdvancedSense









Advanced Toxic Gas Measurement

Example AdvancedSense/Pocket PC/WolfPack[®] Screens



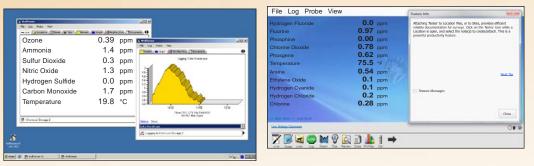
Documenting and data-logging gas parameters has never been easier. Provide a descriptive name for files using the virtual keyboard. Record your readings as snap-shot data captures, or as trend logs over time. On-board educational info.

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, Windows Mobile Pocket PCs 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.







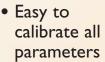
12.7" (322 mm)



7.9" (200mm)

TZ.





- Calibration history stored in probe
- CO & H₂S available in a single sensor
- Allows up to 6 total gases with one probe
- Plus Temperature

Display units as:

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

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

temperature

TG-50I

(50.0)



IO-610

Carbon Dioxide,

Carbon Monoxide,

ppb VOCs, %RH,

°F/°C plus one additional gas

AS-201

probe

Air Velocity

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.

1.92"

- 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

one probe, plus °F/°C



6-Channel Particle

Counter



GrayWolf offers additional probes and 3rd party sensors...and more are on the way.

Any I (one) sensor in

ADVANCEDSENSE° **DIRECTSENSE**

Toxic Gas Test Meters

SPECIFICATIONS: TG-501, EC-20	0.0	Limit of Detection
Gas	(ppm)	(ppm)
Sulfur Dioxide (SO ₂)	0.0 to 30	0.1
Nitrogen Dioxide (NO2)	0.00 to 30	0.02
Nitric Oxide (NO)*	0.0 to 140	0.2
Carbon Monoxide (CO solo)	0.0 to 750	0.5
Carbon Monoxide (CO combo w/ H_2S sensor) 0.0 to 500	1.0
Hydrogen Sulfide (H ₂ S solo)	0.00 to 50	< 0.03
Hydrogen Sulfide (H ₂ S combo w/CO sensor)	0.0 to 200	0.5
Hydrogen Cyanide (HCN)	0.0 to 30	0.2
Hydrogen Chloride (HCl)*	0.0 to 30	0.5
Hydrogen (H ₂)	0 to 1000	2.0
Chlorine (Cl ₂)	0.00 to 10	0.02
Ammonia (NH3) Standard range sensor	0.0 to 100	1.0
Ammonia (NH₃) High range sensor	0 to 1000	12
Ethylene Oxide (C₂H₄O)*	0.0 to 20	0.3
Ozone (O₃)	0.00 to 1.00	0.02
Oxygen (O₂)	0.0 to 25%	0.2%
Silane (SiH₄)	0.00 to 50	0.05
Arsine (AsH₃)	0.00 to 1.00	0.02
Chlorine Dioxide (CIO ₂)	0.00 to 1.00	0.02
Phosphine (PH₃)	0.00 to 5.0	0.05
Phosgene (COCl ₂)	0.00 to 1.0	0.02
Fluorine (F ₂)	0.00 to 1.0	0.02
Hydrogen Fluoride (HF)	0.00 to 10.0	0.1
Temperature: (PT100) Accuracy: ±0.3°C		
Range: -10° to 160°F (-25° to +70°C)		
Operating Range: 0 to 98%RH (non-condensing), -20° to 50°C		
Specific gas sensors may have a reduced oper	ating range	
Probe Dimensions : 2in. (5cm) dia. x 12.5in. (30cm) lgth.		
Weight (probe):	w/batteries IIb. 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 Req's: Windows 8/7/Vista/XP		

*HCl, NO, EtO; up to 2, but not all 3 may be installed into a single TG-501 probe All specifications are to 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.
- AdvancedSense TOX kits include an AdvancedSense meter, DirectSense TOX kits include a mobile 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.



GRAYWOLF[®] SENSING SOLUTIONS

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MEASURE SMART

GRAYWOLF

REPORT EFFICIENTLY



PCC-15 Multi-Probe Security Case (shown at left w optional ACC-BRKI brackets for external HCHO or particulate meters)



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



▲ CA-GS25 Gas Calibration Kit. Specific calibration gases are available in various portable cylinder sizes



• Probe wall mounting brackets, cameras (for photo/video notes), audio to text transcription software, automated reporting software, extension cables and other accessories are available from GrayWolf. View them on our website at accessories.graywolfsensing.com .



tripod kit







ACC-FIL6 Probe Filters for dirty environments



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