

AreaRAE Plus is a wireless, transportable area monitor that can simultaneously detect toxic and combustible gases, volatile organic chemicals, and meteorological factors that affect the speed and direction of the gas.

Whether you need to protect your community by monitoring a fence line, protect your employees during a maintenance turnaround, or protect your fire and hazmat team during emergency response, the AreaRAE Plus alerts you to threats with local audible and visual alarms. Plus, it works with Honeywell's remote monitoring software to give you a real-time view of threat readings from a safe location.

### FEATURES

- **Up to six 4R+ sensors for toxic and combustible gas.**  
Choose from a mix of up to 20 sensors based on your needs and switch them out whenever your needs change.
- **7R+ photoionization detector.**  
Monitor VOCs in parts per million, with built-in compensation for temperature and humidity.
- **Optional meteorological sensor for tracking toxic plumes.**  
Honeywell's compact RAEMet sensor sits at the top of the AreaRAE Plus and measures wind speed, wind direction, temperature and humidity. This information is then modeled in Honeywell's real time monitoring software which integrates the ALOHA hazard monitoring program.

### APPLICATIONS

- Industrial emergency response teams
- Maintenance turnarounds / Shutdowns
- Fence line monitoring
- Clearing a confined space for entry
- Wastewater pipeline rehabilitation
- Site remediation
- Fumigation, excavation and other environmental liabilities

### REMOTE VISIBILITY ON THREATS

- Delivers real-time readings to Honeywell's remote monitoring software, so you can instantly determine the location and severity of a threat
- Map-based display is accessible from any computer with an internet connection— or from our laptop as a turnkey host
- Enables coordination and data sharing in joint operations



### EASE & FLEXIBILITY

- Available in Rapid Deployment Kit for quick threat assessment
- User-friendly interface; turn it on and go
- Flexible power options for short and long-term deployments
- Easy to hear and see, with 108-decibel alarm
- Easy USB connection to configuration software
- Built-in Mesh modem for short range communication with RAE Systems wireless portable detectors.

CALL GEOTECH TODAY

(800) 833-7958

Geotech Environmental Equipment, Inc.

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Technical Specifications	
<b>Dimensions</b>	12.36" x 12.04" x 6.53" (314 x 306 x 166 mm) with rubber boot
<b>Weight</b>	13.88 lb. (6.3 kg) full option configuration 14.33 lb. (6.5 kg) full option configuration +RAEMet
<b>Gas Sensor Slots</b>	Up to 7; see Sensor List
<b>Additional Sensor</b>	RAEMet (Wind Speed, Wind Direction, Temperature & Humidity)
<b>GPS</b>	Standard equipment in every unit
<b>Battery</b>	Rechargeable 7.2V/10 Ah Li-ion battery pack with built-in charger
<b>Operating Hours</b>	~16 hours with wireless connectivity on Li-ion battery pack Specification at room temperature (20°C)
<b>Power Unit</b>	12VDC >2A
<b>Display</b>	Large 240 x 320 pixel LCD backlit display 2.5" x 3.33" (64 x 85 mm)
<b>Keypads</b>	3 operation and programming keys
<b>Alarms</b>	Multi-tone 108dB buzzer @ 3.3 ft. (1 m), bright LED 360 degree view and on-screen indication of alarm conditions Additional diagnostic alarm and display message for low battery Wireless connectivity alarm
<b>Data Logging</b>	Continuous data logging 90 days for 7 gas sensors, 1 Gamma sensor, 1 RAEMet (wind speed & direction, temp and RH), and GPS at 1 min. intervals, 24/7
<b>Data Storage</b>	24M bytes (memory full action: stop when full or Wrap around)
<b>Data interval</b>	User-configurable from 1 to 3,600 sec.
<b>Wireless<sup>1</sup></b>	<b>Primary Radio Module:</b> - Long range ISM License Free 900MHz or 2.4GHz radio - IEEE 802.11 b/g Wi-Fi <b>Secondary Radio Module:</b> Short range IEEE 802.15.4 900MHz or 868MHz Mesh Radio <b>Wireless Range<sup>3</sup>:</b> Up to 2 miles (3 km) for ISM 900 MHz Up to 1.2 miles (2 km) for ISM 2.4GHz Up to 330 ft. (100m) for Wi-Fi Up to 650 ft. (200m) for Mesh secondary radio Up to 15 ft. (5m) for BLE. <b>Wireless Approval:</b> FCC Part 15, CE R&TTE, Others <sup>4</sup>
<b>Communication</b>	Communicates to ProRAE Studio II via USB cable to PC Wireless data and alarm status transmission via Wi-Fi or ISM modem Act as gateway to connect up to 8 remote instruments (using secondary radio module)
<b>Safety Certification</b>	Class 1, Division 2 Groups A, B, C, D
<b>Sampling Pump</b>	Built-in pump, typical flow rate 450 cc/min.
<b>Temperature</b>	20°C to +50°C (- 4°F to +122°F)
<b>Humidity</b>	0% to 95% relative humidity (non-condensing)
<b>Ingress Protection</b>	IP 65
<b>Performance Tests</b>	MIL-STD-810G and 461F LEL CSA C2.2No. 152, ISA-12.13.01
<b>Warranty<sup>2</sup></b>	Two years on non-consumable and catalytic LEL, CO, H2S, and O2 sensors Six months for 9.8 eV lamp PID sensor One year on all other sensors, battery, and other consumable parts Two years for 10.6eV 7R+ PID Lamp

RAEMet Specifications	
<b>Wind Speed</b>	<b>Range:</b> 0 to 20 m/s (0 to 44 mph) <b>Start Speed:</b> 0.1 m/s (0.22 mph)
<b>Wind Direction</b>	<b>Range:</b> 360° (No dead band)
<b>Temperature</b>	-20°C to 60°C (-4°F to 140°F) Resolution 0.1°C (1.8°F)
<b>Humidity</b>	10 to 95% RH Resolution 1% RH
<b>Compass</b>	Resolution 1°
<b>Power</b>	Power supplied by the AreaRAE Plus

Supported Sensors		
SENSORS	RANGE	RESOLUTION
<b>PID SENSORS</b>		
<b>7R+; 10.6 eV ppm</b>	0 to 2,000 ppm	0.1 ppm
<b>4R+; 9.8 eV</b>	0 to 5,000 ppm	0.1 ppm
<b>COMBUSTIBLE SENSOR</b>		
<b>Catalytic Bead Sensor</b>	0 to 100% LEL	1% LEL
<b>ELECTROCHEMICAL SENSORS</b>		
<b>Ammonia (NH3)</b>	0 to 100 ppm	1 ppm
<b>Carbon Monoxide (CO)</b>	0 to 500 ppm	1 ppm
<b>Carbon Monoxide Ext. (CO HR)</b>	0 to 2,000 ppm	10 ppm
<b>Carbon Monoxide H2 Comp (CO H2 Comp)</b>	0 to 2,000 ppm	10 ppm
<b>Chlorine (Cl2)</b>	0 to 50 ppm	0.1 ppm
<b>Chlorine Dioxide (ClO2)</b>	0 to 1 ppm	0.03 ppm
<b>Ethylene Oxide (ETO-A)</b>	0 to 100 ppm	0.5 ppm
<b>Ethylene Oxide (ETO-B)</b>	0 to 10 ppm	0.1 ppm
<b>Ethylene Oxide (ETO-C)</b>	0 to 500 ppm	10 ppm
<b>Hydrogen (H2)</b>	0 to 2,000 ppm	10 ppm
<b>Hydrogen Chloride (HCl)*</b>	0 to 30 ppm	1 ppm
<b>Hydrogen Cyanide (HCN)</b>	0 to 50 ppm	0.5 ppm
<b>Hydrogen Fluoride (HF)*</b>	0.5 to 10 ppm	0.1 ppm
<b>Hydrogen Sulfide (H2S)</b>	0 to 100 ppm	0.1 ppm
<b>Hydrogen Sulfide Ext. (H2S HR)</b>	0 to 1,000 ppm	1 ppm
<b>Oxygen (O2)</b>	0 to 30%	0.10%
<b>Sulfur Dioxide (SO2)</b>	0 to 20 ppm	0.1 ppm
<b>Nitric Oxide (NO)</b>	0 to 250 ppm	0.5 ppm
<b>Nitrogen Dioxide (NO2)</b>	0 to 20 ppm	0.1 ppm
<b>Phosphine (PH3)</b>	0 to 20 ppm	0.1 ppm

\*Contact Geotech for availability

1 Additional equipment and/or software licenses may be required to enable remote wireless monitoring and alarm transmission  
2 Against factory defects

3 Receiving > 80%

4 Contact Geotech for country specific wireless approvals and certificates

Specifications are subject to change

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