

The AreaRAE Pro is a wireless, transportable area monitor that can simultaneously detect toxic and combustible gases, volatile organic compounds, radiation and meteorological factors. Whether you're carrying it into a hazmat response, setting up perimeter at a fire or protecting a public venue, the AreaRAE Pro works with Honeywell's remote monitoring software to give you a real-time view of threat readings so you can make real time decisions to ensure the safety of your teams and the general public.

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.
- Optional gamma sensor for radiation detection.

 Detect and measure gamma radiation with increased sensitivity and faster response without using an additional sensor slot.

APPLICATIONS

- First Responders
- Hazmat
- Civil Defense & Military
- Public Venue Protection

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
- Supports long-distance remote monitoring
- Built-in mesh modem for short-range monitoring
 no external router required
- Flexible power options for short and long-term deployments
- Easy to hear and see, with 108-decibel alarm
- Easy USB connection to configuration software

CALL GEOTECH TODAY

(800) 833-7958

Geotech Environmental Equipment, Inc.
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Technical Specifications				
Dimensions	12.36" x 12.04" x 6.53" (314 x 306 x 166 mm) with rubber boot			
Weight	13.88 lb. (6.3 kg) full option configuration 14.33 lb. (6.5 kg) full option configuration +RAEMet			
Gas Sensor Slots	Up to 7; see Sensor List			
Additional Sensor	Gamma RAEMet (Wind Speed, Wind Direction, Temperature & Humidity)			
GPS	Standard equipment in every unit			
Battery	Rechargeable 7.2V/10 Ah Li-ion battery pack with built-in charger			
Operating Hours	~16 hours with wireless connectivity on Li-ion battery pack Specification at room temperature (20°C)			
Power Unit	AC adapter with Input 110-240V AC			
Display	Large 240 x 320 pixel LCD backlit display 2.5" x 3.33" (64 x 85 mm)			
Keypads	3 operation and programming keys			
Alarms	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			
Data Logging	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. inter- vals, 24/7			
Data Storage	24M bytes (memory full action: stop when full or Wrap around)			
Data interval	User-configurable from 1 to 3,600 sec.			
Wireless ¹	Bluetooth Low Energy module (BT4.0) and GPS Primary Radio Module: - Long range ISM License Free 900MHz or 2.4GHz radio - IEEE 802.11 b/g Wi-Fi Secondary Radio Module: Short range IEEE 802.15.4 900MHz or 868MHz Mesh Radio Wireless Range3: Up to 2 miles (3 km) for ISM 900 MHz Up to 1.2 miles (2 km) for ISM2.4GHz Up to 330 ft. (100m) for Wi-Fi Up to 650 ft. (200m) for Mesh secondary radio Up to 15 ft. (5m) for BLE. Wireless Approval: FCC Part 15, CE R&TTE, Others4			
Communication	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)			
Safety Certification	Class 1, Division 2 Groups A, B, C, D			
Sampling Pump	Built-in pump, typical flow rate 450 cc/min.			
Temperature	20°C to +50°C (- 4°F to +122°F)			
Humidity	0% to 95% relative humidity (non-condensing)			
Ingress Protection	IP 65			
Performance Tests	MIL-STD-810G and 461F LEL CSA C2.2No. 152, ISA-12.13.01			
Warranty ²	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			

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

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SENSORS	RANGE	RESOLUTION		
PID SENSORS		•		
4R+; 10.6 eV ppb	0 to 2,000 ppm	10 ppb		
7R+; 10.6 eV ppm	0 to 2,000 ppm	10 ppm		
4R+; 9.8 eV	0 to 2,000 ppm	0.1 ppm		
COMBUSTIBLE SENSOR		^		
Catalytic Bead Sensor	0 to 100% LEL	1% LEL		
ELECTROCHEMICAL SENSORS				
Ammonia (NH3)	0 to 100 ppm	1 ppm		
Carbon Monoxide (CO)	0 to 500 ppm	1 ppm		
Carbon Monoxide Ext. (CO HR)	0 to 2,000 ppm	10 ppm		
Carbon Monoxide H2 Comp (CO H2 Comp)	0 to 2,000 ppm	10 ppm		
Chlorine (Cl2)	0 to 50 ppm	0.1 ppm		
Chlorine Dioxide (ClO2)	0 to 1 ppm	0.03 ppm		
Ethylene Oxide (ETO-A)	0 to 100 ppm	0.5 ppm		
Ethylene Oxide (ETO-B)	0 to 10 ppm	0.1 ppm		
Ethylene Oxide (ETO-C)	0 to 500 ppm	10 ppm		
Hydrogen (H2)	0 to 2,000 ppm	10 ppm		
Hydrogen Chloride (HCI)*	0 to 30 ppm	1 ppm		
Hydrogen Cyanide (HCN)	0 to 50 ppm	0.5 ppm		
Hydrogen Fluoride (HF)*	0.5 to 10 ppm	0.1 ppm		
Hydrogen Sulfide (H2S)	0 to 100 ppm	0.1 ppm		
Hydrogen Sulfide Ext. (H2S HR)	0 to 1,000 ppm	1 ppm		
Oxygen (O2)	0 to 30%	0.10%		
Sulfur Dioxide (SO2)	0 to 20 ppm	0.1 ppm		
Nitric Oxide (NO)	0 to 250 ppm	0.5 ppm		
Nitrogen Dioxide (NO2)	0 to 20 ppm	0.1 ppm		
Phosphine (PH3)	0 to 20 ppm	0.1 ppm		
GAMMA RADIATION SENSOR				
Gamma I-Sensor	0.01 μSv/h to 0.2 mSv/h	50 keV to 3 MeV		

^{*}Contact Geotech for availability

(1 μrem/h to 0.02 rem/h)



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10.6eV 7R+ PID Lamp



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

⁴ Contact Geotech for country specific wireless approvals and certificates Specifications are subject to change