





AreaRAE Pro

Easy to use transportable area monitor for multiple threat detection.

AreaRAE Pro

Remote visibility on more threats than ever for a new level of real-time situational awareness

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.

AreaRAE Pro delivers maximum flexibility and versatility in one device:

• Up to six 4R+ sensors for toxic and combustible gas.

AreaRAE Pro offers more than 20 interchangeable sensors that can be swapped at a moments notice to meet the changing needs of first responders.

7R+ photoionization detector.

Monitor VOCs in parts per billion, with built-in compensation for temperature and humidity.

Meteorological station for tracking toxic plumes.

Honeywell's compact RAEMet sensor sits at the top of the AreaRAE Pro 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

Ease and Fexibility

- 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 shortand long-term deployments
- Easy to hear and see, with 108-decibel alarm
- Easy USB connection to configuration software

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

Specifications

DIMENSIONS	314 x 306 x 166 mm (with rubber boot) 12.36" x 12.04" x 6.53" (with rubber boot)	
WEIGHT	6.3 kg (13.88 lb) full option configuration 6.5 kg (14.33 lb) full option configuration (+RAEMet)	
GAS SENSORS SLOTS	up to 7; see Sensor list	
ADDITIONAL SENSORS	Gamma; RAEMet (Wind Speed, Wind Direction, Temperature & Humidity)	
GPS	Standard equipment in every unit	
BATTERY	Rechargeable 7.2 V / 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 INPUT	AC adapter with Input 110-240 V AC	
DISPLAY	Large 240 x 320 pixel LCD backlit display	
	64 x 85 mm / 2.5" x 3.33"	
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 intervals, 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 range ³ : 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, Others ⁴	
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)	IP 65	
	MIL-STD-810G and 461F	
PERFORMANCE TESTS	LEL CSA C2.2No. 152, ISA-12.13.01	
WARRANTY ²	Two years on non-consumable and catalytic LEL, CO, $\rm H_2S$ and $\rm O_2$ 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		
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 Pro	

 $^{^{1}\!}Additional\,equipment\,and/or\,software\,licenses\,may\,be\,required\,to\,enable\,remote\,wireless\,monitoring\,and$ *Additional equipment anusus software accessionary or a larm transmission

2Against factory defects

3Receiving > 80%

4Contact RAE Systems for country specific wireless approvals and certificates

Specifications are subject to change

Supported Sensors

SENSOR	RANGE	RESOLUTION
PID SENSORS		
4R+; 10.6eV ppb	0 to 2,000 ppm	10 ppb
7R+; 10.6 eV ppb	0 to 2,000 ppm	10 ppb
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 (NH ₃)	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 H ₂ Comp (CO H ₂ Comp)	0 to 2,000 ppm	10 ppm
CHLORINE (Cl ₂)	0 to 50 ppm	0.1 ppm
CHLORINE DIOXIDE (CIO ₂)	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 (H ₂)	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 to 10 ppm	0.1 ppm
HYDROGEN SULFIDE (H ₂ S)	0 to 100 ppm	0.1 ppm
HYDROGEN SULFIDE EXT. (H ₂ S HR)	0 to 1,000 ppm	1 ppm
OXYGEN (O ₂)	0 to 30 %	0.10%
SULFUR DIOXIDE (SO ₂)	0 to 20 ppm	0.1 ppm
NITRIC OXIDE (NO)	0 to 250 ppm	0.5 ppm
NITROGEN DIOXIDE (NO ₂)	0 to 20 ppm	0.1 ppm
PHOSPHINE (PH ₃)	0 to 20 ppm	0.1 ppm
GAMMA RADIATION SENSOR		
GAMMA I-SENSOR	0.01 µSv/h to 0.2 mSv/h (1 µrem/h to 0.02 rem/h)	50 keV to 3 MeV

^{*}Contact Honeywell for avåailability

Honeywell Analytics Gas Detection

Honeywell Analytics is able to provide gas detection solutions to meet the requirements of all applications and industries. Contact us in the following ways:

HEADQUARTERS

Europe, Middle East, Africa

Detection)

Life Safety Distribution GmbH
Javastrasse 2
8604 Hegnau
Switzerland
Tel: +41 (0)44 943 4300
Fax: +41 (0)44 943 4398
gasdetection@honeywell.com
Customer Service:
Tel: 00800 333 222 44 (Freephone number)
Tel: +41 44 943 4380 (Alternative number)
Fax: 00800 333 222 55
Middle East Tel: +971 4 450 5800 (Fixed Gas Detection)

Middle East Tel: +971 4 450 5852 (Portable Gas

Americas

RAE Systems by Honeywell 3775 North First Street San Jose, CA 95134 USA Tel: +1 877 723 2878

Honeywell Analytics Distribution Inc. 405 Barclay Blvd.
Lincolnshire, IL 60069
USA
Tel: +1 847 955 8200
Toll free: +1 800 538 0363
Fax: +1 847 955 8210
detectgas@honeywell.com

Asia Pacific

Honeywell Industrial Safety 7F Sang Am IT Tower, 434, Worldcupbuk-ro, Mapo-gu, Seoul 03922 Korea Tel: +82 (0) 2 6909 0300 Fax: +82 (0) 2 2025 0328 India Tel: +91 124 4752700

China Tel: +86 10 5885 8788 3000

analytics.ap@honeywell.com

www.honeywellanalytics.com www.raesystems.com

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