



Rapid Deployment Kit

Rapid Deployment Kit System Package for Hazardous Environment Detection

The Rapid Deployment Kit (RDK) is designed for quick assessment of gaseous threats. The kit includes four wireless, 5-gas AreaRAE monitors with in-case charging as well as the Host Controller for monitoring from a command center up to two miles away. The system can scale up to 32 AreaRAEs with the addition of Detector Kits, each containing 4 AreaRAEs. The Rapid Deployment Kit offers first responders the chemical detection tools they need in two rugged carrying cases.

The AreaRAE monitors can be rapidly deployed and redeployed in situations that require a quick and adaptable response. They can be arranged in a perimeter to detect chemical hazards and to monitor the environmental safety of a large public event.

The units help response teams gain control over potentially perilous situations by assessing the environment and determining the geographic dispersal of hazardous gases and chemicals. Housed in a military-grade self-contained case, the Rapid Deployment Kit is easy to transport and easy to deploy.

The Rapid Deployment Kit also provides protection in the monitoring of environmental remediation, oil, gas platforms, petrochemical applications, and refineries. AreaRAE combines a photoionization detector (PID) for parts-per-million measurement of volatile organic compounds (VOCs) with lower explosive limit (LEL) and oxygen sensors, plus two electrochemical toxic sensors for measuring specific substances such as hydrogen sulfide or chlorine. The Rapid Deployment Kit is designed for military, industrial, and municipal customers and can be easily purchased through RAE Systems worldwide representatives.

Applications

• HazMat & Emergency Response

- Shave valuable minutes off response times
- Remotely monitor spills from safe location
- Protect wide area and community
- Achieve instant real-time situational awareness

• Public Venue protection

- Remotely monitor stadiums, convention centers, etc., from a central security room
- Deploy monitors for specific public events

• Marine and offshore wells

- Simultaneously monitor multiple floors (e.g., drilling, refining, processing) from central control room
- Easily redeploy to where personnel are working, based on the day's activities

• Refineries and Petrochemical

- Redeployable system ideal for monitoring refinery turnarounds

• Environmental Remediation

- System can be rapidly redeployed to different remediation sites

• Confined Space Entry

• Power plants

• Pulp and paper industry

• Plant and mill turnarounds



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RDK System Package

System Features

- Rapid Deployment
 - Host Controller is "open & operate"
 - AreaRAEs are stored with handles on
- In-case charging
- Portability
 - complete system in easy-to-transport military-grade cases
- Easy to order
 - Order an entire functioning system with just one part number
- Value Pricing
 - By purchasing the package, receive the standard system and Pelican case with in-case charging at a lower price than ordering separately



An "RDK System Package" contains:

- RDK Detector Kit—contains 4 AreaRAEs, spare batteries, and calibration kit, with in-case charging
- RDK Host Controller Kit—contains laptop host controller with preloaded ProRAE Remote Software, RAELink2 Host controller RF modem, all wired to operate in-case

RDK Host Controller Kit



RDK Host Controller Kit contains:

- Turn-key ProRAE Remote package in Pelican case, including laptop and wireless modem

RDK Host Controller features:

- In-case charging—Single external plug to charge both laptop and RAELink2 Host modem
- Custom-cut foam padding
- "Open-the-case" operation

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RAE Systems Inc.
3775 North First Street
San Jose, CA 95134 USA
raesales@raesystems.com

USA/Canada 1-877-723-2878
Europe/Russia +45 8652 5155
Middle East/Australia 971 50 429 1385
China 8610 58858788
Asia +852 2669 0828

www.raesystems.com

RDK Detector Kit



RDK Detector Kit contains:

- 4 AreaRAEs (LEL/O₂/10.6eV PID/choice of 2 toxic sensors)
- RAELink2 Repeater
- 4 spare Lithium-ion batteries
- External 4-bank battery charger
- Accessories

RDK Detector Kit features:

- In-case charging—one plug to charge 4 AreaRAEs and RAELink2 Repeater in the case
- Padded insert stands up to repeated removal and replacement
- AreaRAEs stored with handles on for faster deployment

Sensor Specifications

Gas Monitor	Range	Resolution
Oxygen	0 to 30.0%	0.1%
Combustible	1 to 100% LEL	1% LEL
VOCs	0 to 199 ppm 200 to 2,000 ppm	0.1 ppm 1 ppm
Carbon Monoxide	0 to 500 ppm	1 ppm
Carbon Monoxide	10 to 2000 ppm	10ppm
Hydrogen Sulfide	0 to 100 ppm	1 ppm
Sulfur Dioxide	0 to 20.0 ppm	0.1 ppm
Nitric Oxide	0 to 250 ppm	1 ppm
Nitrogen Dioxide	0 to 20.0 ppm	0.1 ppm
Chlorine	0 to 10.0 ppm	0.1 ppm
Hydrogen Cyanide	0 to 100 ppm	1 ppm
Ammonia	0 to 50 ppm	1 ppm
Phosphine	0 to 5.0 ppm	0.1 ppm
Hydrogen Chloride	2 to 15 ppm	1 ppm
Hydrogen Fluoride	2 to 10 ppm	1 ppm

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