



AutoRAE 2

Automatic Test and Calibration System



The AutoRAE 2 Automatic Test and Calibration System for RAE Systems portable monitors makes instrument testing and calibration compliance as easy as pressing a button. Simply cradle the monitor, and the system takes care of calibration, testing, and battery recharging.

The AutoRAE 2 system is flexible and modular, and can be configured to efficiently meet your calibration and records management requirements. An AutoRAE 2 system can be as simple as a single cradle deployed in stand-alone mode to calibrate one instrument at a time, or as powerful as a networked, controller-based system supporting 10 instrument cradles and 5 distinct calibration gases or gas mixtures.

- Easy, one-touch bump testing, calibration, charging, and records management
- Supports a wide variety of gases, including exotics
- Optimized for field use—does not require a computer to operate
- Firmware-upgradeable to protect your investment

KEY FEATURES

- Automatic testing, calibration, charging system
- Deployable as a stand-alone cradle or a controller-based system with up to 10 cradles
- Controller with a large, color LCD display
- Networking capability
- Up to 5 calibration gas cylinders can be connected at the same time*
- Automatic instrument FW update option
- Instruments datalogging file recorded automatically on controller SD card
- Bench-top or wall-mounted use
- Instruments supported: ToxiRAE Pro, ToxiRAE Pro LEL, ToxiRAE Pro PID, ToxiRAE Pro CO₂, QRAE 3, MultiRAE Lite (Pumped), MultiRAE and MultiRAE Pro
- Single cradle for all QRAE 3 and ToxiRAE Pro family instruments

INDUSTRIES

- Oil and Gas
- Industrial
- Environmental
- Fire Service
- National Security



The high-resolution color display on the controller provides a rich, intuitive user experience.

*Supported only on configurations that include the AutoRAE 2 Controller



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SPECIFICATIONS

Size	AutoRAE 2 Controller: 5.63" W x 10.43" L x 1.73" H (143 x 265 x 44 mm) MultiRAE Cradle ⁴ : 6.50" W x 12.68" L x 4.37" H (165 x 322 x 111 mm) QRAE 3 Cradle: 6.50" W x 12.60" L x 4.65" H (165 x 320 x 118 mm) ToxiRAE Pro Cradle: 6.50" W x 11.61" L x 3.91" H (165 x 295 x 99 mm) Terminal Adapter: 2.17" W x 8.86" L x 1.65" H (55 x 225 x 42 mm)
Weight	AutoRAE 2 Controller: 1.9 lbs. (0.86 kg) MultiRAE Cradle: 1.9 lbs. (0.86 kg) QRAE 3 Cradle: 2.16 lbs (0.98kg) ToxiRAE Pro Cradle: 1.96 lbs. (0.89 kg) Terminal Adapter: 0.33 lbs. (0.15 kg)
Power Supply	AutoRAE 2 Controller: AC adapter (110V to 240V input, 12V output, 7.5A) Charges up to 10 instruments at a time Cradles: AC adapter (110V to 240V input, 12V, 1.25A output) Charges one instrument at a time
Cradles Supported	AutoRAE 2 Controller: Up to 10 cradles total (any mix, any order) Cradles: No additional cradles supported
Display	AutoRAE 2 Controller: 5.7" TFT (320 x 240) graphical backlight color LCD Cradles: 2 seven-segment LEDs
Buttons	AutoRAE 2 Controller: 3 buttons ([Mode], [Y/+], and [N/-]) Cradles: 2 buttons ([Bump] and [Cal])
Real-time Clock	AutoRAE 2 Controller: Yes Cradles: Yes
Visual Alarm/Indicators	AutoRAE 2 Controller: Color graphical LCD display Cradles: Tri-color (red/green/yellow) LED lights
Audible Alarm	AutoRAE 2 Controller: 90dB @ 12" (30 cm) Cradles: Same as above
Gas Inlet/Outlet Ports	AutoRAE 2 Controller: 6 inlets (1 dedicated fresh air inlet and 5 configurable calibration gas inlets); 1 exhaust port Cradles: 3 inlets (1 dedicated fresh air inlet and 2 configurable calibration gas inlets); 1 exhaust port
Gas Port Connectors	AutoRAE 2 Controller: Connectors with 200-series barb, 1/8" (3.18 mm) ID tubing Cradles: Same as above
Gas Regulator	AutoRAE 2 Controller: Demand-flow regulator (0 to 1,000 psig/70 bar) Cradles: Same as above
Pump Flow Rate	AutoRAE 2 Controller: Built-in pump (500 ml/min) Cradles: NA for pumped instruments, (400 ml/min typical) for diffusion instruments
Data Storage	AutoRAE 2 Controller: Standard 2 GB SD card with security lock Cradles: None. Data stored only on PC
PC Communications	AutoRAE 2 Controller: USB (Type B) port for direct connection to PC Cradles: Same as above
Printer Support	Cradles: Direct printing on serial (RS-232) printers

Networking	AutoRAE 2 Controller: Direct cable (RJ-45 10/100 Base T port) Wi-Fi module (accessory) Cradles: Not supported
System Configuration	AutoRAE 2 Controller: PC-based configuration via ProRAE Studio II software. Can be performed using networking capability Cradles: PC-based configuration via ProRAE Studio II software
Wall-mounting Accessory	AutoRAE 2 Controller: Standard TS35 DIN rail Cradles: Standard TS35 DIN rail
Operating Temperature	AutoRAE 2 Controller: 32° F to 122° F (0° C to 50° C) Cradles: 32° F to 122° F (0° C to 50° C)
Operating Humidity	AutoRAE 2 Controller: 5% to 95% relative humidity (non-condensing) Cradles: 5% to 95% relative humidity (non-condensing)
Languages	AutoRAE 2 Controller: English Cradles: English
Compliance	AutoRAE 2 Controller: CE Cradles: CE
Warranty	AutoRAE 2 Controller: 2-year limited warranty Cradles: 2-year limited warranty

Specifications are subject to change

ORDERING OPTIONS

The AutoRAE 2 Automatic Test and Calibration System and its components can be ordered using the Portables Pricing Guide via RAE Systems distribution partners selling portable products.

ORDERING INFORMATION

Product	Part Number
AutoRAE 2 Controller Includes terminal adapter	T02-0107-000
AutoRAE 2 Cradle for ToxiRAE Pro Models Includes adapters for all ToxiRAE Pro models	T02-3101-000
AutoRAE 2 Cradle for MultiRAE Pumped Models	T02-0103-000
AutoRAE 2 Cradle for QRAE 3 Models	T02-0203-000
AutoRAE 2 Cradle for MultiRAE Pumped Models	T02-0103-000
Wi-Fi Module for AutoRAE 2 Controller	T02-0303-000



An AutoRAE 2 system configured with the Controller and three Cradles for ToxiRAE Pro, QRAE 3 and MultiRAE pumped monitors.

CORPORATE HEADQUARTERS

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