



ppbRAE
plus

FAQ

Frequently Asked Questions

1. What is the ppbRAE Plus?

The ppbRAE Plus is an upgrade to both the hardware and the firmware of the ppbRAE.

2. What is the new version of firmware?

Version 2.0

3. What enhancements does the new firmware provide?

The new firmware, Version 2.0:

- Expands the detection range of the ppbRAE from 0 – 200 ppm VOCs to 0 – 2000 ppm.
Note: If the new firmware is installed without upgrading the hardware, the detection range is increased to 0 – 500 ppm. Because of the range change, the lowest span value now is 1ppm.
- Optimizes PID sensor performance via new, patented technology
- Restores point-to-point communication in compliance with TN-141 (“Monitor Remote Control Functions”).
- Enhances high speed communication – supports 38400bps in PC communication mode.

- Displays a reading during pump-off duty previous 4 seconds, and the minimum duty cycle percentage is increased from 30% to 50%.

- Includes changes to the display that make the ppbRAE Plus operate more like a MiniRAE 2000:

- “Change Unit?” is now “Change Conc. Unit?”
- “View/Change Datalog?” is now
- Change Datalog?”
- Added Date/Time/Temperature display
- Added shut-off voltage display
- Added gas name display
- Average reading display
- Peak reading display
- Added “Check...” whenever unit starts measuring
- Added “Can not turn on lamp, quit! “ if lamp check fail
- Added “Update” and “Data” toggle display at the end of calibration



4. Will RAE Systems continue to manufacture the ppbRAE?

No, beginning immediately, only the ppbRAE Plus will be manufactured.

5. What will happen if I upload the new firmware onto my ppbRAE?

If the firmware v2.0 is loaded onto a ppbRAE without the accompanying hardware upgrade:

- The range of the ppbRAE will increase from 0 - 200 ppm to 0 – 500 ppm.
- All other enhancements as listed in Question #3 will be implemented.

6. Is there a price increase for the ppbRAE Plus?

No, the instrument is listed at the same price with added value.

7. Is there a change in the part number?

No, the ppbRAE Plus uses the same part number as the ppbRAE.

8. Can a ppbRAE be upgraded to a ppbRAE Plus?

Yes. Customers can purchase an upgrade for US\$395.00. ppbRAEs purchased after April 1, 2004 are eligible to be upgraded at no charge.

9. What is the part number for the upgrade?

PN: 025-9000-000

10. What is the price of the upgrade?

Price: US\$395.00

11. What does the upgrade include?

The ppbRAE upgrade to ppbRAE Plus includes:

- Upgraded firmware to 2.0
- Upgraded board for 2000 ppm capacity
- Upgraded lamp housing to Teflon® inserts (if needed)
- Upgraded to Flex-I-Probe (if needed)
- Zero adapter and 1 box zero tubes
- Manual addendum/new manual
- Replaced filters and O-rings as needed
- Calibration

Note: To be eligible for this upgrade, the unit must be in working condition.

12. What if the unit is not in good working condition?

If the unit needs additional work, such as a new sensor or a new lamp, the customer should use the One Price Repair program, which costs US\$525.00 (part number: Service-251).

13. Can the upgrade be performed by a RAE Systems distributor?

No, the hardware changes must be done at RAE Systems in order to maintain UL and ATEX certification.



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