

RELEASE NOTES

MicroRAE

Version: V1.12
Release Date: August, 2018

All users are recommended to update their existing MicroRAE instruments with the latest firmware.

What's New?

This new firmware implements changes for better performance of all MicroRAE products (see “**Changes**” and “**Improvements**” sections for details). This release also contains fixes for customer-reported issues (see “**Issue Fixes**” section for details).

Installation and Update Notes

Installation

The MicroRAE communicates with a PC running ProRAE Studio II (**V1.11.4 or greater**) Instrument Configuration and Data Management software to download datalogs, configure the instrument, or upload new firmware.

The MicroRAE must be connected to a PC through the supplied Travel Charger and must be in PC Communications mode.

1. Use the supplied PC Communications Cable (USB to mini-USB cable) to connect the Travel Charger to a PC.
2. Turn on the MicroRAE. Make sure it is running (with the main measurement screen showing).
3. Activate the PC Communications mode on the MicroRAE by pressing [MODE] repeatedly, starting from the main measurement screen, until you reach the “Comm Mode” screen.
4. Press [Y/+]. Measurement and datalogging stop, and the instrument is now ready to communicate with the PC. The display now says “Ready To PC”.
5. Start up the ProRAE Studio II software, enter a password, and detect the instrument following the directions provided in the ProRAE Studio II User’s Guide.
6. Follow the instructions in the ProRAE Studio II User’s Guide to download the datalog, configure the instrument settings, or update the MicroRAE’s firmware.
7. When you are done, press [MODE] to exit the PC communications mode on the MicroRAE.

Note: After upgrading the MicroRAE's firmware, the instrument turns off automatically.

For more information

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Previous Versions

MicroRAE FW v1.10A

Issue Fixes

ID	Description
4GL-603	LEL CF selection of Gasoline and Methyl Mercaptan LEL Correction factor changed to revision 0301
4GL-418	For with Mesh or Wi-Fi Configuration units, the clear alarm was different. New FW unify the process On Reading Screen, Press Y key Instrument will show "Clear alarm?" Press Y key to clear the alarm.
4GL-532	H ₂ S sensor does not show complete value if unit expressed in mg/m ³
4GL-526	LEL Span value can be set to different value than 50% LEL
4GL-527	In calibration menu, after LEL calibration process, readings show value with CF instead of span value
4GL-460	No calibration due warning when sensor information or calibration gas is changed
4GL-460	ProRAE Guarding does not present alarm or error if sensor have a zero or fresh air calibration fail alarm
4GL-422	EchoView Host displays wrong instrument name (QRAE 3)

Changes

ID	Description
	Supports new BLE FW Module
	Remove GPS Search Duty Cycle
	Default backlight mode set to manual
	LEL sensor Max Alarm message replace by Fail Alarm
4GL-522 4GL-525	O ₂ sensor algorithm change: <ul style="list-style-type: none"> - Span value cannot be higher than 20.8% - Improved Fresh air calibration - Calibration passes if sensor is missing (bug) - ProRAE Guardian does not present calibration due alarm
4GL-578	Change Wi-Fi Protocol
4GL-579	Change WSN message to Unicode
4GL-524	No Fresh Air menu option if multi calibration sensor option disable from PRSII

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Improvements

ID	Description
	Device Configuration (DC) mobile app support NOTE: If unit in DC Mode, it will pause datalogging function <ul style="list-style-type: none"> - Instrument FW upgrade - BLE module FW upgrade - Instrument configuration - Datalogging download
	Additional Icons on Instrument UI for BLE module
	Supports improved Man Down Alarm Algorithm
	In case of gas Alarm, instrument datalogging interval will automatically change to 1s
4GL-399	SC 2.4 or greater supports MicroRAE PANIC Alarm

Known issue / Recommendations / Work Around:

- If instrument FW downgraded from 1.12 to 1.10A or 1.10, after restart device will show “No sensor installed”. It is not recommended to downgrade FW version.
- 4GL-640: BLE icon solid display but instrument cannot be found by DC when user try to configure this unit.
Workaround: disable-enable BLE, restart instrument
- 4GL-632: Unit 'Fail alarm' cannot be passed to Echoview host
Issue will be solved with Echoview Host FW v3.4 released (planned Early August)
- 4GL-630: Calibration / Bump interval set and get value are not matched on PRS-II
Issue will be solved with ProRAE Studio II v1.11.5 released (planned Early August)

Ecosystems compatibility:

ProRAE Guardian	v1.14.6 (On Premise) v1.14.5 (Cloud) or greater
ProRAE Studio II	v1.11.4
BLE module FW	v1.04 Please refer to BLE Programmer release note on how to upgrade MicroRAE BLE module FW to v1.04
Device Configuration	v2.0
Safety Configuration	v2.4
AutoRAE2 Controller	v1.34A
AutoRAE2 Cradle	v1.34A