

RELEASE NOTES

MultiRAE Lite, MultiRAE, MultiRAE Pro, MultiRAE Benzene

Version: Application Firmware V1.50
Sensor Firmware V1.50

Release Date: May 2018

We strongly recommended all users update their MultiRAE Lite, MultiRAE, MultiRAE Pro and MultiRAE Benzene firmware (FW) versions to V1.50.

What's New?

Firmware version 1.50 improves MultiRAE-series instruments and resolves issues on all MultiRAE-family instruments (see "Issues Fixes" for details). We strongly recommended all users update their MultiRAE Lite, MultiRAE, MultiRAE Pro, and MultiRAE Benzene sensor firmware (FW) to V1.50.

Installation and Update Notes

Installation

MultiRAE-series products communicate with a PC running ProRAE Studio II Instrument Configuration and Data Management software (version 1.11.2 or higher is recommended) to download datalogs, configure the instrument, or upload new firmware.

1. Use the supplied PC Communications Cable (USB to mini-USB cable) to connect the Desktop Cradle or Travel Charger to a PC.
2. Turn on the MultiRAE. Make sure it is running in Normal mode (with the main measurement screen showing).
3. Insert the MultiRAE in the Desktop Cradle or connect it to the Travel Charger.
4. Activate the PC communications mode on the MultiRAE by pressing [N/-] repeatedly, starting from the main measurement screen until you reach the "Communicate With Computer?" screen.
5. Press [Y/+]. Measurement and datalogging stop, and the instrument is now ready to communicate with the PC. The display now says "Ready To Communicate With Computer."
6. 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.
7. Follow the instructions in the ProRAE Studio II User's Guide to download the datalog, configure the instrument settings, or update the MultiRAE's firmware.
8. When you are done, press [Y/+] to exit the PC communications mode on the MultiRAE. The instrument returns to operating in Normal mode.

IMPORTANT!

Upgrade sensor firmware first and then upgrade the application firmware. Once both firmware upgrades are complete, the instrument powers off automatically, and then is ready when the instrument is turned on again.

Previous Versions

MultiRAE Application FW v1.40C

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MultiRAE FW v1.40C

Issue Fixes

ID	Description
M2R-13	When calibration reference is changed, unit prompts "Calibration Due" Alarm
M2R-4	Methane MW value change to 16 (was 88.8) – affects customer using mg/m ³ measurement unit
M2R-178	ProRAE Guardian & EchoView Host user interface is not consistent with MultiRAE sensor warning (should show "---") feature supported by EchoView Host FW v2.18 or higher

Changes

ID	Description
M2R-112	Add 0.4ppm "dead band" on SO ₂ sensor

Improvements

ID	Description
M2R-49	Instrument Panic Alarm can be transferred to EchoView host
M2R-5	Supports PH ₃ H sensor
M2R-6	Introduce Glance Mode
M2R-8	Introduce Wi-Fi modem on all MultiRAE-series instruments
M2R-196	Include "send message" function
M2R-98	Introduce P2P / Wireless Switch
M2R-17	Man Down Alarm is disabled when the instrument is charging
M2R-127	When using N ₂ to calibrate the O ₂ span (span point: 18%), then the O ₂ sensor has an open circuit and sometimes the fresh air calibration will pass
M2R-171	O ₂ sensor span 0 always fails calibration with N ₂ gas
M2R-175	O ₂ sensor can change span value over 20.9 via ProRAE Studio II but cannot change span value over 20.9 on MultiRAE-series instruments
M2R-219	If MultiRAE product is cradled on an AutoRAE2 connected to PRSII, instrument Mesh configuration can be changed

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Known issues

PRORAE Guardian: MultiRAE FW 1.50 is supported by ProRAE Guardian V1.14.4. Here is a list of known issues that will be fixed on ProRAE Guardian V1.14.6:

ID	Description
M2R-227	ClO ₂ sensor reading "0.0" on ProRAE Guardian while reading "0.00" on MultiRAE instrument
	ProRAE Guardian cannot display instrument sensor resolution below 1 ppm (only for Wi-Fi configuration)
M2R-225	MultiRAE-series instruments equipped with Wi-Fi wireless module only receive the first 20 characters out of the 32 characters that can be sent from ProRAE Guardian
M2R-207	ProRAE Guardian cannot correctly present instrument alarm set points from MultiRAE Series with Wi-Fi modem When connected with ProRAE Guardian, all safety-related functionality works correctly, but ProRAE Guardian does not show the instrument's alarm settings.
M2R-204	During testing we have seen a few cases where: If a MultiRAE-series Wi-fi instrument is going offline and the Wi-Fi module is disabled, it does not reconnect with the system when it is enabled again and in range of communication with the Wi-Fi infrastructure Potential workaround: Restart MultiRAE instrument.