



# Gradian Service Bulletin

GSB-00009

PRIORITY: **MEDIUM**

## Issue: UAMV Software Update to 1.06

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### SUMMARY

- UAMV software version 1.06 includes updates to the ventilator based on usability feedback and bug fixes.

### CORRECTIVE ACTION

- Update to software version 1.06.
- This software updates several user interface functions and additional features to enhance UAMV functionality.
- The full procedure for updating the UAMV software can be found here: [UAMV Software Update Procedure](#).

### SOFTWARE INFORMATION

UAMV software version 1.06 full release notes:

- **Alternative Power On:** When AC is plugged in, the screen will display a battery charging status and a digital power on button.
- **Excess Incoming Flow from UAM:** Added a new alarm "UAM Flow Too High" which triggers when excess flow is set on the UAM flowmeter.
- **Expiration:** Fenton valve is opened for a longer period of time to allow full exhalation and release of gas. The UAMV also avoids pressure build up by reducing expiratory flow threshold before inspiration.
- **Patient Flow Sensor Calibration:** UAMV enforces zeroing before calibration by applying a larger flush to empty the reservoir. Addition of a speed-up step at the beginning of a second or third calibration attempt to ensure quicker flush.
- **FIO2 Calibration:** Extended flush period to 50 seconds and increased flush outflow. The internal valve is kept open during calibration.
- **Spontaneous Mode:** Internal solenoid valve is held open in Spontaneous Mode to allow FIO2 measurement.

- **Leak Test:** Allows for multiple manual intervention tests to distinguish leaks in UAM(V) system:
  - 1) Disconnect the patient tube from the inspiratory port and plug the inspiratory port and run the test.
  - 2) Connect the patient tubing only to the inspiratory port. Plug the Y-Piece and expiratory end, then run the test.
  - 3) Keep the Y-piece plugged, and connect the expiratory end to the expiratory port, then run the test.
- **Umbrella Valve Test:** Added a one-respiratory cycle test via a new interface button, "Umb Valve test" in the settings.
- **FIO2 in Standby Mode:** Opens internal valve in Standby Mode to allow for FIO2 measurement.
- **Patient Disconnect Alarm:** A new alarm, "Patient Disconn" is shown when one of the following conditions is present: patient is disconnected from the flow sensor, the flow sensor is disconnected from the breathing circuit, or the flow sensor tubing is disconnected from the UAMV.

### TOOL INFORMATION

- A computer (Mac or Windows) and micro-USB cable are required to update the UAMV software.

### WARRANTY COVERAGE

This issue is covered under the Gradian Warranty and the cost of updating the software will be covered by Gradian for in-warranty units.