# GX-6000 Calibration Station User Guide

## TURN ON

### Status Indications

Status Light: Sold green - No instrument
Blinking green - GX-6000 installed
Blinking orange - Charging
Solid orange - Charge complete
Solid red - Problem detected

Status Icons:
⊙ GX-6000 is connected
○ Tab's Active box is not selected.
▶ Cal/Bump/Alarm Check in progress
■ Green - Test Pass
■ Red - Test Failed
✖ GX-6000 problem detected

### Install GX-6000

**1. Flip the SDM-6000's power switch so that it's in the ON position.**

**2. Orient the GX-6000 so the belt clip is facing away from the SDM-6000. Set the bottom of the GX-6000 in the bottom of the instrument cradle and push the top of the GX-6000 toward the SDM-6000.**

**2. Push the red gas in/gas out cover down until it touches the GX-6000 and then release it.**
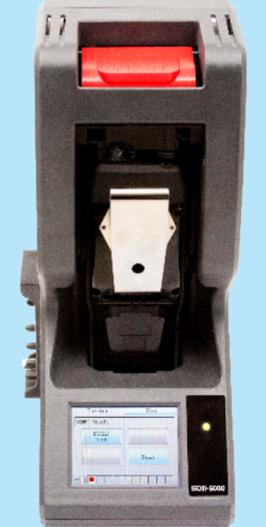
### Instrument Connected

The GX-6000 will turn on once the gas in/gas out cover is in place. The GX-6000 will begin its power up sequence. The status of the instrument is shown by the Station/Instrument Indicators at the bottom of the Function Tab. The color of the corresponding indicator and the logo shown in it will indicate the status of the instrument.

## BUMP TEST

### Start Bump Test

**1. If necessary, press the Function button in the upper left corner to get the Function Tab to appear.**

**2. Press the BUMP button to initiate a bump test.**

If you wish to cancel the bump test, press the BUMP Cancel button in the Function Tab and press Yes in the window that appears.

### Fresh Air Adjustment

The SDM-6000 will apply fresh air to the GX-6000 for the time defined by the AIR Flush bump test parameter.

If one or more of the sensors fails the fresh air adjustment, the SDM-6000 will abort the bump test and will not apply calibration gas. If this happens, the Unit Tab will indicate which channels passed and failed the fresh air adjustment. (Above is an example of an O2 channel failure) above)adjustment.

### Bump Testing

The SDM-6000 will apply calibration gas in the order of the active gas inlet fittings. The SDM-6000 will analyze the results after the end of each gas application.

The GX-6000 will shut off after 15 seconds. If the bump test failed, the GX-6000 will shut off after 10 minutes.

### Bump Test Results

Once the bump test is over, the Function Tab will display a BUMP End button. To view the test results, press the Unit button to display the Unit Tab. The displayed results will alternate between bump test results and alarm check results. The test results will display on the Unit Tab until you press the BUMP End button in the Function Tab even if the GX-6000 is turned off.

The results can be printed by pressing the Print button at the end of a bump test. (if optional printer is connected)

### Remove GX-6000

**To turn off the GX-6000 before it is automatically turned off, press the Detector Off button in the lower left corner of the Unit Tab.**

**Then push the red gas in/gas out cover toward the GX-6000 and then release it. It should return to its unused state at the top of the SDM-6000. Remove the GX-6000 from the SDM-6000.**

## CALIBRATION

### Start Calibration

**1. If necessary, press the Function button in the upper left corner to get the Function Tab to appear.**

**2. Press the CAL button to initiate a calibration.**

If you wish to cancel the calibration, press the CAL Cancel button in the Function Tab and press Yes in the window that appears.

### Fresh Air Adjustment

The SDM-6000 will apply fresh air to the GX-6000 for the time defined by the AIR Flush calibration parameter.

If one or more of the sensors fails the fresh air adjustment, the SDM-6000 will abort the calibration and will not apply calibration gas. If this happens, the Unit Tab will indicate which channels passed and failed the fresh air adjustment.

### Calibration

The SDM-6000 will then apply calibration gas in the order of the active gas inlet fittings. The SDM-6000 will analyze the results after the end of each gas application.

the GX-6000 will shut off after 15 seconds. If the calibration failed, the GX-6000 will shut off after 10 minutes.

### Calibration Results

Once the calibration is over, the Function Tab will display a CAL End button. To view the test results, press the Unit button to display the Unit Tab. The displayed results will alternate between calibration results and alarm check results. The test results will display on the Unit Tab until you press the CAL End button in the Function Tab even if the GX-6000 is turned off. The results of the calibration will be stored in the SDM-6000's SD card.

The results can be printed by pressing the Print button at the end of a calibration. (if optional printer is connected)

### Remove GX-6000

**To turn off the GX-6000 before it is automatically turned off, press the Detector Off button in the lower left corner of the Unit Tab.**

**Then push the red gas in/gas out cover toward the GX-6000 and then release it. It should return to its unused state at the top of the SDM-6000. Remove the GX-6000 from the SDM-6000.**
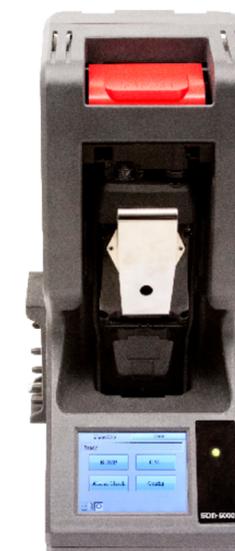
## ALARM CHECK

### To perform an alarm check:

**1. If necessary, press the Function button in the upper left corner to get the Function Tab to appear.**

**2. Press the Alarm Check button to initiate an alarm check.**

The buzzer will sound, the LEDs will turn on for a few seconds, the vibrator will vibrate, and the SDM-6000 will determine if these actions were completed successfully. After the alarm check, the Function Tab will display. To view the test results, press the Unit button to display the Unit Tab. The test results will display on the Unit Tab until you press the Alarm Check End button in the Function Tab even if the GX-6000 is turned off.

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**Model SDM-6000**