GX-Force Calibration Station
User Guide

TURN ON

A — Turn SDM-Force Cal Station On

B — Open USB port cover / Connect USB Cable / Connect USB Cable / Connect GX-Force with USB C Cable

C — Connect GAS IN and GAS OUT Tubing

Turn Cal Station On

1. Hold down the POWER button on the SDM-Force for at least one second to turn on the power.

Connect USB Cable

1. Connect the GX-Force using a USB-C cable. Ensure USB connector is pressed firmly into gas detector.

2. Mount the gas detector face down.

The gas detector will beep and vibrate when it turns on automatically after being mounted.

Connect Gas Tubing

1. Connect the GAS IN tube on the product to the gas inlet on the gas detector, then connect the GAS OUT tube to the gas outlet.

Once communication is established, the gas names and calibration gas concentrations set on the gas detector are displayed on the LCD.
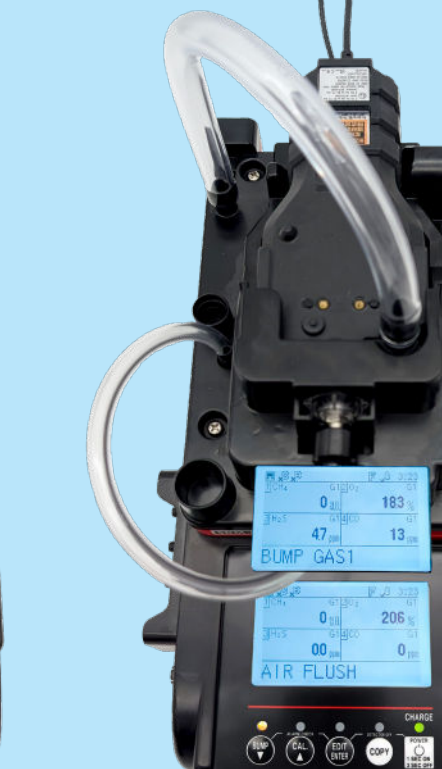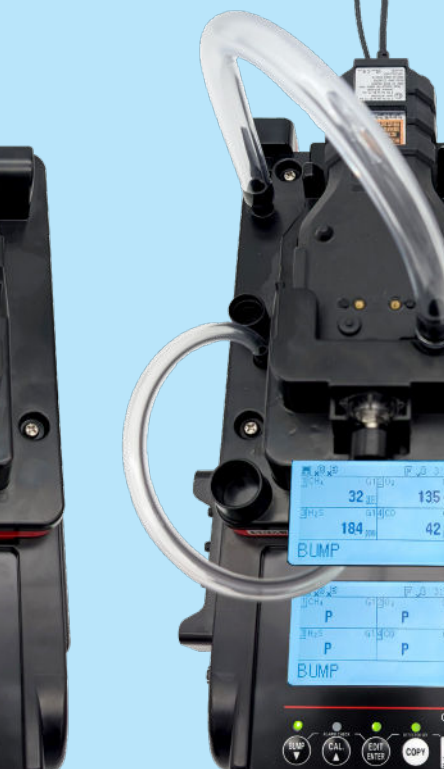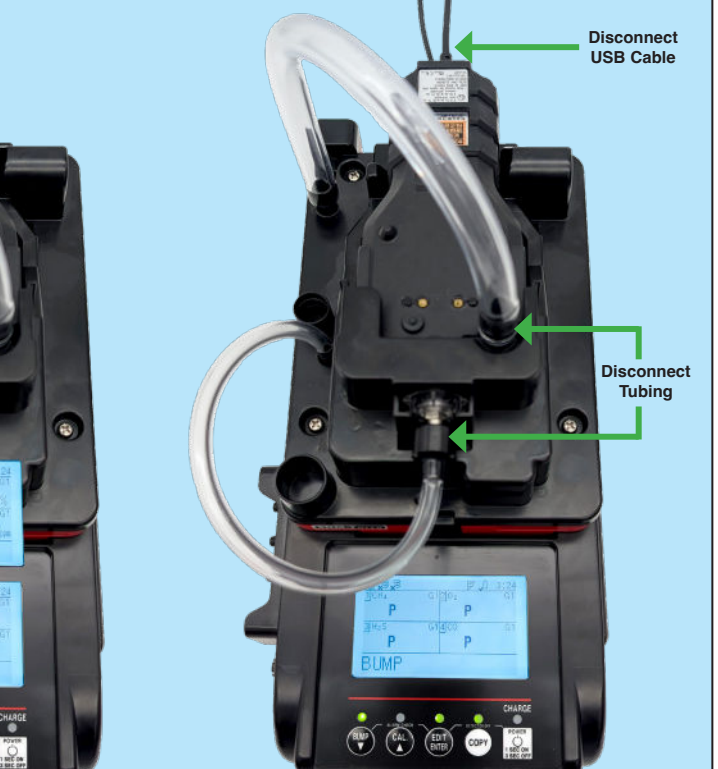
BUMP TEST

A — Press BUMP

D — Disconnect USB Cable / Disconnect Tubing

Bump Test

Note: Ensure calibration gas cylinder is connected to a demand flow regulator and then to the left side of the calibration station.

1. Press the BUMP button to start the bump test.

The bump test is performed for all gases.

Bump Gas Reading

During the bump test, the current gas oncentration is displayed and "BUMP" LED blinks orange. An AIR FLUSH will display on the LCD followed by BUMP GAS1. Then an air purge is performed at the end of the bump test before the results are displayed.

Bump Results

Once bump test is complete, the LCD screen will alternate between the gas concentration and pass/fail status (shown as P or F on screen). The LED above the "BUMP" button on the SDM-Force will be green when a bump test passed or red if there is a failure. The GX-Force gas detector will shut off automatically after bump test.

Removing Gas Detector

1. Disconnect USB C cable from gas detector.

2. Disconnect GAS tubes from gas detector.
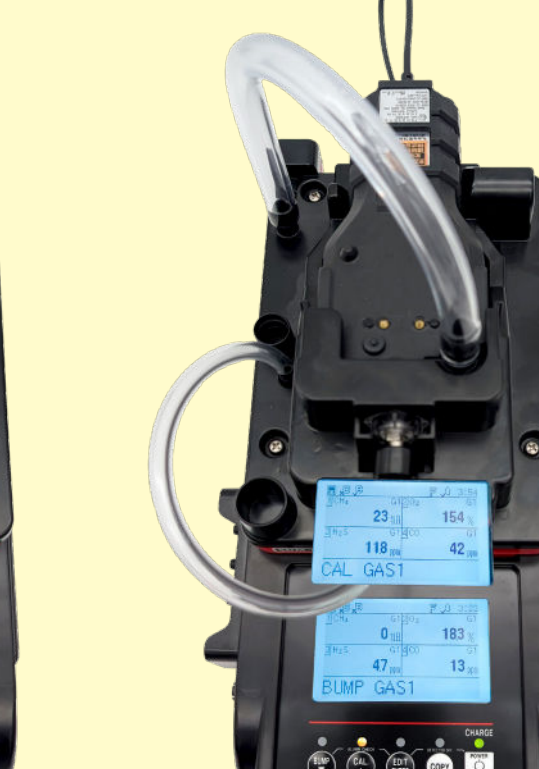
3. Gas detector can now be removed.
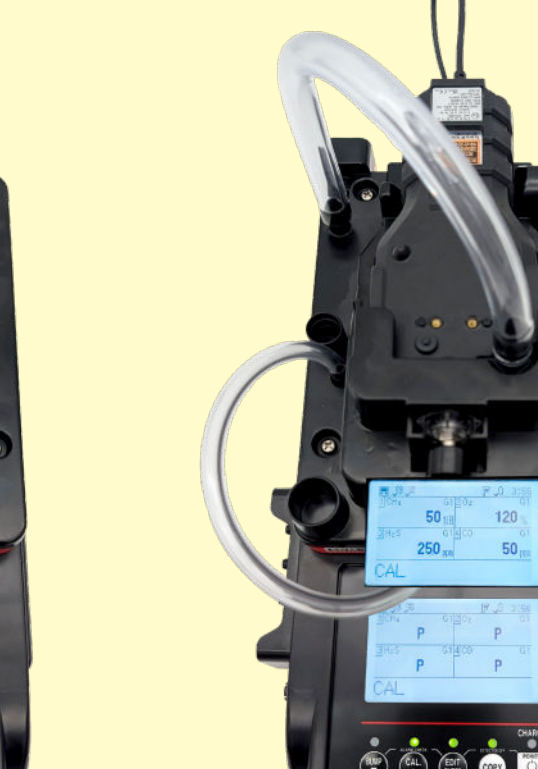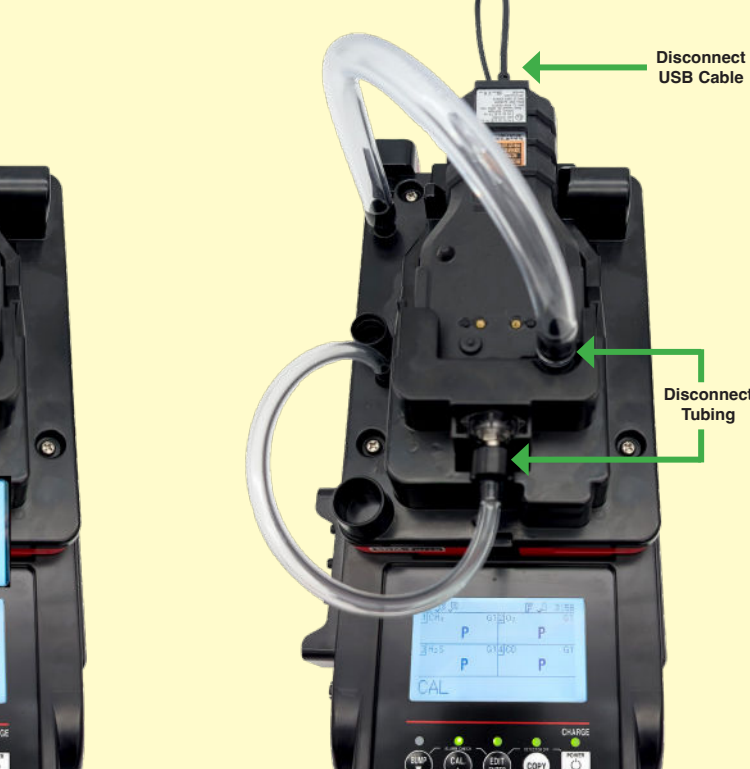
CALIBRATION

A — Press CAL

D — Disconnect USB Cable / Disconnect Tubing

Calibration

Note: Ensure calibration gas cylinder is connected to a demand flow regulator and then to the left side of the calibration station.

1. Press the CAL button to start gas adjustment.

The calibration test is performed for all gases.

Gas Adjustment Readings

During the calibration, the current gas concentration is displayed and "CAL" LED blinks orange. AIR FLUSH will display on the LCD followed by CAL GAS1. Then an air purge is performed at the end of the calibration before the results are displayed.

Gas Adjustment Results

Once calibration is complete, the LCD screen will alternate between the gas concentration and pass/ fail status (shown as P or F on screen). The LED above the "CAL" button on the SDM-Force will be green when a calibration passed or red if there is a failure. The GX-Force gas detector will shut off automatically after calibration.
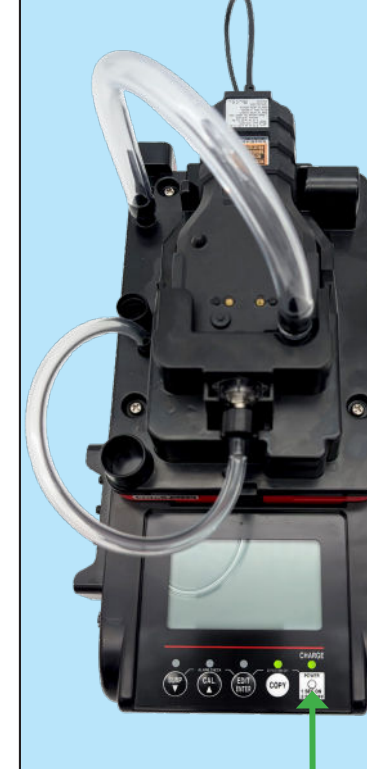
Removing Gas Detector

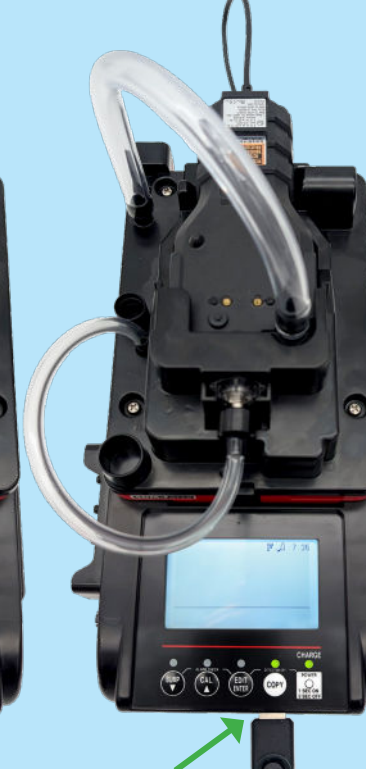**1. Disconnect USB C cable from gas detector.**

2. Disconnect GAS tubes from gas detector.

3. Gas detector can now be removed.

DATA TRANSFER

Turn on SDM-Force / Insert USB Drive / Hold down COPY button until LED lights up red

Transfer Data To USB Flash Drive

1. Hold down the POWER button on the product for at least one second to turn on the power.

2. Insert the USB flash drive (sold separately) into the USB port on the front of the product.

3. Hold down the COPY button on the product until the COPY LED lights up red.

The calibration test, gas adjustment, and alarm check data stored in the product is copied to the USB flash drive. Once copying is complete, the COPY LED returns to its previous state.

Model SDM-Force

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