SCRAM®

REMOTE BREATH PRO

SCRAM Remote Breath Pro® Calibration

Quick Reference Guide

Please read, understand, and follow all information contained in this manual prior to using the SCRAM Remote Breath Pro (RB Pro) device. Retain this manual for future reference.

Patents: www.scrampatents.com

Intended Use

The SCRAM Remote Breath Pro device is part of a breath alcohol monitoring system and transfers data to a computerized monitoring network. This equipment is intended for use on individuals being monitored by a trained supervising authority.

FCC Regulatory Compliance: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

Healthe and Safety Notice

Improper installation or use of this SCRAM device may cause injury.

Refer to Health and Safety Notice at www.scramsafety.com or on SCRAMNET Help page and follow instructions to aviod injury.

Cleaning

To avoid damaging equipment, use only cleaning and disinfecting products approved by SCRAM Systems on the SCRAMNET Help page. Never use citrus or pine-based cleaning products. To avoid contaminating alcohol sensors within SCRAM Systems products, never use alcohol or alcohol-containing cleaning products.

Battery Warnings

Caution - Contains Li-ion or Li-polymer battery. Do not heat, throw into fire, deform, short circuit, immerse in or wet with water. The battery is **not** consumer-replaceable and should not be removed.

To recharge use only the provided SCRAM RB Pro charger.

24/7 Customer Service

Phone: (303) 785-7879

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Introduction

To ensure accurate readings, the SCRAM Remote Breath Pro (RB Pro) breath-alcohol testing device must be calibrated at least once every 12 months. Alcohol Monitoring Systems, Inc. (d/b/a “SCRAM Systems”) will not endorse the breath alcohol test results of a device that was not calibrated at least 12 months prior to the date of a given test result.

Calibrating the SCRAM Remote Breath Pro device is a simple process that takes just a few minutes to complete. Components needed to calibrate a device include:

- Gas Canister
- Regulator (4 LPM)
- Rubber Tubing
- RB Pro Breath Tube

Calibrations and calibration checks must be performed by an AMS-certified calibration technician. To become certified, send an e-mail to training@scramsystems.com requesting enrollment in the SCRAM Remote Breath Pro Calibration Certification Training course.

Assemble Remote Breath Pro Calibration Equipment

What you will need:

- Gas Canister
- Regulator
- Rubber Tubing

1. Screw the regulator onto the canister by hand until snug. Once attached, the pressure gauge will display the gas pressure in the canister.
2. Firmly attach one end of the rubber tubing to the barbed fitting on the regulator.

Calibration Procedures

Key Steps to Follow

- Ensure nothing obstructs the air vent on the back of the RB Pro device during calibration. For example, **do not** lay the device flat on any surface or block the vent with your hand while holding the device.
- When the device is in an "In Inventory" status power up the device and ensure the device can communicate before initiating a calibration.
- When the device is in an "Assigned to Client" status, ensure the device can communicate before initiating a calibration. The Device will "wake-up" and begin the calibration process when assigned.

Calibrate Device

To calibrate the device:

1. Initiate calibration in SCRAMNET.
   a. Select the **Inventory** button.
   b. Enter the serial number of the device in the *Serial Number* field and select the **Search** button.
   c. Select the Serial Number hyperlink.
   d. On the Device Details page, select the **Initiate Calibration** button.

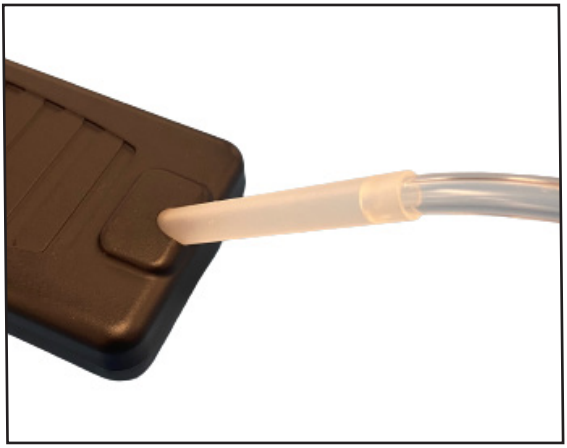
      A "Calibration Initiated - Waiting to communicate with the Device" message appears.
2. Ready the device for calibration.
   a. Power on (In Inventory) or wake up (Assigned to Client) the device. The device displays the following steps:

      → *PLEASE WAIT*
      → *SERIAL #[device s/n]*
      → *READY FOR CALIBRATION*
      → *ATTACH EQUIPMENT*
      → *START FLOW OF GAS*

In SCRAMNET, the message on the Device Details page changes to "Running Calibration - Attach to the Device to proceed with Calibration."

b. If you have not already done so, connect the free end of the rubber tubing to an RB Pro breath tube. The rubber tubing fits inside the end of the breath tube with the larger diameter.

c. Connect the breath tube to the RB Pro device as shown below.



3. Perform device calibration and calibration check.

   a. Press and hold the push button on the top of the regulator until the device prompts you to stop the flow of gas.

   The device displays:

   → STOP FLOW OF GAS
   → CALIBRATION SUCCESSFUL
   → REMOVE EQUIPMENT
   → CAL-CHECK PENDING
   → PLEASE WAIT
   → READY FOR CAL-CHECK
   → ATTACH EQUIPMENT
   → START FLOW OF GAS

b. Press and hold the push button on the top of the regulator again until the device displays:

→ STOP FLOW OF GAS

→ CAL-CHECK SUCCESSFUL

→ REMOVE EQUIPMENT

→ CALIBRATION COMPLETE

Once the calibration and cal-check are complete, the device will return to the pre-calibration state. "Device Unassigned" for *In Inventory* devices, or "Monitoring" for *Assigned to Client* devices.

4. Verify results in SCRAMNET.

   On the Device Details page select the **Refresh Page to Latest Status** button. A record of the calibration appears in the Calibration History section.

Perform Calibration Check

To perform a device calibration check:

1. Initiate calibration check in SCRAMNET.
   a. Select the **Inventory** button.
   b. Enter the serial number and select the **Search** button.
   c. Select the Serial Number hyperlink.
   d. Select the **Initiate Cal-Check** button.
2. Power on (In Inventory) or wake up (Assigned to Client) the device. The device displays the following steps:

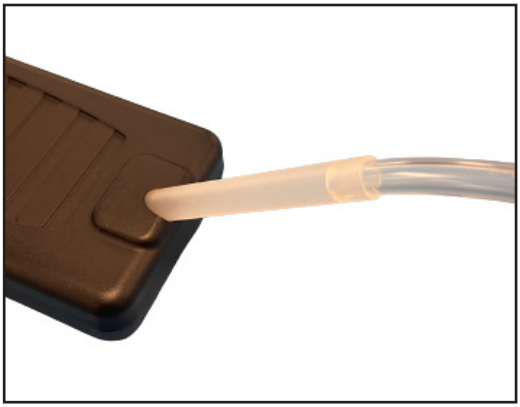
   → PLEASE WAIT

   → SERIAL *#[device s/n]*

   → ATTACH EQUIPMENT

   → START FLOW OF GAS
3. Perform calibration check.
   a. If you have not already done so, connect the free end of the rubber tubing to an RB Pro breath tube. The rubber tubing fits inside the end of the breath tube with the larger diameter.

b. Connect the breath tube to the RB Pro device as shown below.



c. Press and hold the button on the regulator until the device displays STOP FLOW OF GAS.

The device steps through the following displays:

→ Stop Flow of Gas

→ CAL-CHECK SUCCESSFUL

→ REMOVE EQUIPMENT

→ CAL-CHECK COMPLETE

Once the calibration check is complete, the device will return to the pre-test state. "Device Unassigned" for *In Inventory* devices, or "Monitoring" for *Assigned to Client* devices.

4. Verify that the calibration check result appears on the Device Details page in SCRAMNET.

   On the Device Details page select the **Refresh Page to Latest Status** button. A record of the calibration check appears in the Calibration History section.

Perform Air-Blank Test

To perform an air-blank test:

1. Initiate air-blank test in SCRAMNET.
   a. Select the **Inventory** button.
   b. Enter the serial number and select the **Search** button.
   c. Select the Serial Number hyperlink.
   d. Select the **Initiate Air-Blank** button.
2. Power on (In Inventory) or wake up (Assigned to Client) the device. No further action is required on your part, the device displays the following step:

   → PLEASE WAIT

   Once the air-blank test is complete, the device will return to the pre-test state. "Device Unassigned" for *In Inventory* devices, or "Monitoring" for *Assigned to Client* devices.
3. Verify that the air-blank test results appear on the Device Details page in SCRAMNET.

   On the Device Details page select the **Refresh Page to Latest Status** button. A record of the Air-Blank test appears in the Calibration History section.

Troubleshooting

Calibration/Calibration Check

Event	Indication	Recommended Action
Calibration Failed	The calibration or calibration check does NOT meet specifications.	Follow recommendations displayed on device: • Check tubing connections • Ensure breath tube connection to the device is secure • Check the gas canister pressure
Cal-Check Failed	The calibration check does NOT meet specifications.	Follow recommendations displayed on device: • Check tubing connections • Ensure breath tube connection to the device is secure • Check the gas canister pressure
Device Timed Out	Device did NOT detect gas for 15 minutes after being turned on.	Re-initiate the Calibration/ Calibration Check in SCRAMNET and begin the flow of gas from the canister within 15 minutes of initiation.
Device message still reads "Start Flow of Gas" even when the regulator button is held down.	The device is not detecting the flow of gas.	Ensure there is adequate gas pressure to complete a calibration or cal-check. Ensure the correct regulator is being used. The RB Pro regulator delivers 4L of gas per minute.

Product Specifications

Device Calibration Requirements

1. Calibration must be performed by an AMS-certified calibration technician.
2. Devices are calibrated externally using a DOT standard 0.100 BAC dry gas that is included on the NHTSA Conforming Products List of Calibrating Units for Breath Alcohol Testers.
3. The device contains sensors that automatically compensate for environmental conditions such as temperature and altitude.
4. AMS recommends calibration at least once every 12 months or if the device fails a field calibration check. However, customers may want to calibrate more frequently based on their own internal policies, state laws, or local court/agency policies.
5. Calibration intervals can be set in SCRAMNET for notification when calibration is due.
6. All devices will be calibrated by the manufacturer utilizing DOT standard 0.100 BAC dry gas before the original shipment of the device or after the device has been repaired.

Calibration Check Requirements

1. Calibration checks must be performed by an AMS-certified calibration technician.
2. Perform a calibration check using DOT standard 0.100 BAC dry gas.
3. A calibration check must be within ± 0.005 BAC of the 0.100 alcohol standard utilized.

Perform a calibration check between client assignments (recommended).