

Honeywell Recommended Practices

- Train users in use, application, and awareness of likely gas hazards
- Consider an instrument fault and ensure correct practices are followed
- Ensure only qualified personnel service and maintain equipment
- Users must read the manual and follow the guidelines given
- Only use equipment within certified and operational limits specified
- Ensure accessories used are compatible with gases to be detected
- Inspect equipment for physical damage. Do not use damaged equipment
- Ensure all filters are clear of obstruction/dirt. Replace filters regularly
- Clean with damp cloth using warm water only
- Do not use cleaning products that inhibit or poison sensors
- Ensure units are charged sufficiently for the day's use
- Check that settings comply with regulations. Standards may change over time
- Complete a "bump test" to ensure correct detector operation before use
- Re-zero in fresh air if necessary to correct baseline drift over time
- Calibrate the detector per recommendations for each sensor (*service station, only*)
- Maintain bump/calibration records for later inspection (e.g. by using "**Bump Test Log Book** forms")
- Replace sensors/batteries as needed to maintain performance (*service station, only*)
- Ensure instrument firmware and software updates are applied routinely (*service station, only*)

„Extended Bump“ Testing



CAUTION

Initiating BUMP or CALIBRATION without applying gas can result in a BUMP or CALIBRATION FAIL indication . This is accompanied by a flashing red LED next to any failed sensor. To clear the failure requires a SUCCESSFUL BUMP or CALIBRATION. Subject to Policy Enforcement, a user may be locked out until cleared. This is not a FAULT of the instrument.

Bump testing is the application of test gas to ensure your detector operates correctly. Industry practice and opinion vary regards bump testing of instruments. For this reason, bump Interval, countdown, and enforcement are programmable by the user.

We recommend executing an “Easy Bump Test” prior to each use of the gas monitor and at least once per week if the device is not in use.

Additionally execute an “Extended Bump Test” once in a month, read and note the results for your documentation purposes.

Bump testing is the only way to confirm that filters are not blocked, sensors can react to gas properly, and audible, visual, and vibrating alarms are fully operational.

Depending on instrument configuration, multi-gas mixes may be used to bump test all sensors simultaneously, or individual gases may be applied. It is generally recommended to bump nonreactive gases first, then reactive ones.

This section describes an “Extended Bump” using the instrument menu.

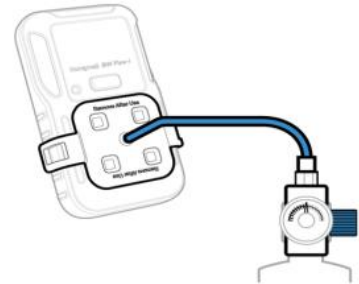
Before starting, ensure you have the materials to complete a successful bump. You will need:

- “Multi-Gas” mix – available from Honeywell authorized distributors
- Reminder: Test gas concentrations should match the instrument settings
- Fixed flow regulator – general purpose or stainless steel, 0.3l/m to 1l/m
- Tubing
- Flow adaptor (*CP-TC-1 supplied with instrument*)
- BUMP BW 5 GAS - Bump Test Log Book BW

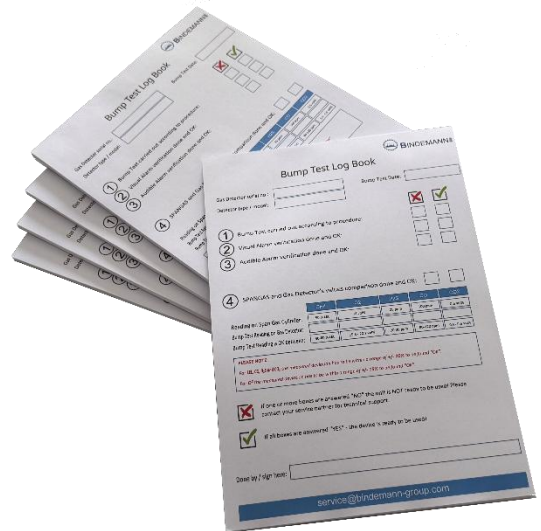
The procedure with the instrument already turned on and automatic Zero-Setting already done:



1. Double press the button to enter MENU mode
2. Single press button to highlight BUMP
3. Press and hold the button to start the bump test
4. Sensor LEDs flash blue in sequence
5. Expected gas to be applied is shown on the display
6. Then shows "Apply Gas" with a 60s countdown
7. Fit the flow adaptor and turn the regulator on
8. Gas being applied is automatically detected
9. Test complete shows maximum gas reading



10. Fill in the "Bump Test Log Book" with the devices data and actual readings. Compare your readings with the given tolerance ranges.
11. Bump SUCCESS then
 - Returns to normal mode
12. Bump FAIL (enforcement OFF), then
 - Warning icon is shown on the display
 - Associated sensor LED is RED



13. Bump FAIL (enforcement ON)
 - Reads "Bump Now" with 300s countdown
 - User must repeat the test successfully, or the instrument shuts down
14. A successful bump is REQUIRED to return to normal use