Limited Warranty and Limitation Liability

BW Technologies LP (BW) warrants the product to be free from defects in material and workmanship under normal use and service for a period of two years, beginning on the date of shipment to the buyer. This warranty extends only to the sale of new and unused products to the original buyer. BW’s warranty obligation is limited, at BW’s option, to refund of the purchase price, repair or replacement of a defective product that is returned to a BW authorized service center within the warranty period. In no event shall BW’s liability hereunder exceed the purchase price actually paid by the buyer for the Product.

This warranty does not include:

a) fuses, disposable batteries or the routine replacement of parts due to the normal wear and tear of the product arising from use;
b) any product which in BW’s opinion, has been misused, altered, neglected or damaged, by accident or abnormal conditions of operation, handling or use;
c) any damage or defects attributable to repair of the product by any person other than an authorized dealer, or the installation of unapproved parts on the product; or

The obligations set forth in this warranty are conditional on:

a) proper storage, installation, calibration, use, maintenance and compliance with the product manual instructions and any other applicable recommendations of BW;
b) the buyer promptly notifying BW of any defect and, if required, promptly making the product available for correction. No goods shall be returned to BW until receipt by the buyer of shipping instructions from BW; and
c) the right of BW to require that the buyer provide proof of purchase such as the original invoice, bill of sale or packing slip to establish that the product is within the warranty period.

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Since some countries or states do not allow limitation of the term of an implied warranty, or exclusion or limitation of incidental or consequential damages, the limitations and exclusions of this warranty may not apply to every buyer. If any provision of this warranty is held invalid or unenforceable by a court of competent jurisdiction, such holding will not affect the validity or enforceability of any other provision.

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User Manual

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Introduction

⚠️ Warning

To ensure personal safety, read the Safety Information before using the MicroDock II Base Station.

The MicroDock II Automatic Test and Calibration Station (“the base station”) provides automated calibration and bump testing for

- GasAlertClip Extreme,
- GasAlert Extreme,
- GasAlertMicro,
- GasAlertMicro 5,
- GasAlertMicro 5 PID,
- GasAlertMicro 5 IR,
- GasAlertMicroClip / GasAlertMicroClip XT,
- GasAlertMax XT / GasAlertMax XT, and
- GasAlertQuattro detectors.

Note

A maximum of six docking modules can be connected to the base station (any combination of charging and non-charging modules).

The base station also provides data transfer for

- GasAlert Extreme,
- GasAlertMicroClip / GasAlertMicroClip XT,
- GasAlertMax XT / GasAlertMax XT II, and
- GasAlertQuattro detectors.

Refer to Charging the Detector.
Contacting BW Technologies by Honeywell

To contact BW Technologies by Honeywell, call:
Canada & USA: 1-888-749-8878
Europe: 00800-333-222-44
Other countries: 1-403-248-9226

Address correspondence to:
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Suite 110 4411-6 Street SE
Calgary, Alberta
Canada, T2G 4E8

Email us at: Bwa.customerservice@honeywell.com
Visit BW Technologies by Honeywell’s website at:
www.honeywellanalytics.com

ISO 9001

Safety Information - Read First

Use the base station only as specified in this manual.

International symbols on the base station and in this manual are explained in Table 1.

Read the Caution statements on the following pages before using the base station.

Caution

This instrument contains batteries. Do not mix with the solid waste stream. Spent batteries should be disposed of by a qualified recycler or hazardous materials handler.
MicroDock II
Safety Information - Read First

⚠️ Cautions

MicroDock II base station
- If the base station is damaged or parts are missing, contact BW Technologies by Honeywell immediately.
- The base station must be used only in a fresh air environment. Do not use the base station in a hazardous area. Failure to adhere to this caution can lead to fire and/or explosion.
- This equipment uses potentially harmful gas for calibrations. The base station must be attached to a venting system or be used in a well-ventilated area.
- Do not calibrate the detector during or immediately after charging is complete.
- Perform calibrations and bump tests only in a fresh air environment.
- The maximum recommended exhaust line length is 50 ft. (15.24 m).
- Ensure that the inlet filter is clean.
- Ensure that all gas cylinders contain enough gas.
- Ensure the exhaust line is not connected to a negative pressure system.
- A demand flow regulator must be used with all gas cylinder connections. Input pressure not to exceed 10 psi.
- Do not expose the base station to electrical shock or severe continuous mechanical shock.
- The base station warranty will be void if the unit is disassembled, adjusted, or serviced by non-BW Technologies by Honeywell personnel.
- Do not immerse the base station in liquids.
- Do not replace detachable MAINS supply cords with inadequately rated cords.
- The external AC/DC power adapter must be supplied with an approved cords suitable for end use installation.

GasAlertMicro, GasAlertMicro 5/PID/IR, GasAlertMicroClip / GasAlertMicroClip XT, GasAlertMax XT / GasAlertMax XT II, and GasAlertQuattro Chargers
- If the charger is damaged or parts are missing, contact BW Technologies by Honeywell immediately.
⚠️ Cautions

- Do not change or charge the batteries in a hazardous location. Do not use the charger in a hazardous location. Failure to adhere to these cautions can lead to fire and/or explosion.
- Read and adhere to all instructions and cautions that are provided with the charger. Failure to do so can result in fire, electric shock, personal injury, and/or property damage.
- Use only BW approved batteries; do not use alkaline or other rechargeable batteries with this charger.
- For indoor use only.
- Do not immerse the charger in liquids.
- Do not expose the charger to electrical shock or severe continuous mechanical shock.
- Ensure the detector battery pack is locked in place before operating the detector.
- To eliminate the risk of electrical shock, disconnect and deactivate the charger when cleaning or performing maintenance.
- Avoid touching the charger and detector contact pins.
- Substitution of components may impair Intrinsic Safety of the detector under charge.
- Do not charge the battery pack with any other charger.
- Do not attempt to disassemble, adjust, or service the charger unless instructions are provided to perform a procedure, or a part is listed as a replacement part in the user manual. Use only BW Technologies replacement parts. Refer to Replacement Parts and Accessories.
- The charger warranty will be void if a customer, personnel, or third parties damage the charger during repair attempts. Any non-BW Technologies by Honeywell service/repair attempts will void this warranty.
- Products may contain materials that are regulated for transportation under domestic and international dangerous goods regulations. Return product in compliance with appropriate dangerous goods regulations. Contact freight carrier for further instructions.
Table 1. International Symbols

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<th>Description</th>
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<td>🇨🇦 🇺🇸</td>
<td>Approved to both U.S. and Canadian Standards by CSA International</td>
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<tr>
<td>🇪🇺 🇪🇺</td>
<td>Conforms to European Union Directives</td>
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Getting Started

Confirm that the items listed below are included with the base station. If the base station is damaged or parts are missing, contact the place of purchase immediately.

- Batteries (four replaceable C-cell alkaline batteries)
- 128 MB Delkin MultiMediaCard (MMC) inserted
- USB cable
- Two to four calibration gas hoses (depending upon order at the time of purchase) with quick connect fittings
- Inlet filter assembly
- Power adapter
- Charger adapter (charger models only)
- MicroDock II Quick Reference Guide
- Fleet Manager II CD ROM

Note

A standard MicroDock II base station is shipped with two inlets. A maximum of four calibration gas inlets can be included if specified by the user before purchasing.

To order replacement parts, refer to Replacement Parts and Accessories.

For information regarding the operations and functions of the base station, refer to the following figures and tables.

- Figure 1. MicroDock II Base Station and Docking Modules
- Figure 2. and Table 2. The MicroDock II Base Station and Docking Module (describes the base station)
- Table 3. Display Elements (describes the base station LCD icons)
- Table 4. Docking Module Pushbuttons
- Figure 3. and Table 5. Base Station Pushbuttons
- Figure 4. and Table 6. Base Station Connections
MicroDock II Base Station and Docking Modules

To connect additional docking modules and to correctly insert detectors into docking modules, refer to Installation.

Note

The GasAlertMicroClip XT docking module is not pictured.
Table 2. The MicroDock II Base Station and Docking Module

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<td>Detector bay</td>
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<tr>
<td>3</td>
<td>Charger status LED (optional)</td>
</tr>
<tr>
<td>4</td>
<td>Docking module</td>
</tr>
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<td>5</td>
<td>Docking module pushbuttons and status LEDs</td>
</tr>
<tr>
<td>6</td>
<td>Battery cover</td>
</tr>
<tr>
<td>7</td>
<td>Charger port (optional)</td>
</tr>
<tr>
<td>8</td>
<td>USB port</td>
</tr>
<tr>
<td>9</td>
<td>Power port</td>
</tr>
<tr>
<td>10</td>
<td>Base station</td>
</tr>
<tr>
<td>11</td>
<td>Exhaust outlet</td>
</tr>
<tr>
<td>12</td>
<td>Station pushbuttons</td>
</tr>
<tr>
<td>13</td>
<td>Calibration gas inlet (inlet 2)</td>
</tr>
<tr>
<td>14</td>
<td>Zero air/purge inlet (inlet 1)</td>
</tr>
<tr>
<td>15</td>
<td>Liquid crystal display (LCD)</td>
</tr>
</tbody>
</table>

**Caution**

Do not remove the battery cover while the base station is activated.

---

Table 3. Display Elements

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="icon" alt="AC" /></td>
<td>AC power</td>
</tr>
<tr>
<td><img src="icon" alt="battery" /></td>
<td>Batteries charged*</td>
</tr>
<tr>
<td><img src="icon" alt="battery" /></td>
<td>Batteries half-charged*</td>
</tr>
<tr>
<td><img src="icon" alt="battery" /></td>
<td>Batteries at low level*</td>
</tr>
<tr>
<td><img src="icon" alt="MMC" /></td>
<td>MMC or SD card</td>
</tr>
<tr>
<td><img src="icon" alt="MMC" /></td>
<td>MMC or SD card not inserted</td>
</tr>
<tr>
<td><img src="icon" alt="test" /></td>
<td>Test pass</td>
</tr>
<tr>
<td><img src="icon" alt="test" /></td>
<td>Test fail</td>
</tr>
<tr>
<td><img src="icon" alt="cursor" /></td>
<td>Cursor and sensor disabled</td>
</tr>
<tr>
<td><img src="icon" alt="scroll" /></td>
<td>Scroll up</td>
</tr>
<tr>
<td><img src="icon" alt="scroll" /></td>
<td>Scroll down</td>
</tr>
<tr>
<td><img src="icon" alt="selection" /></td>
<td>Selection arrow</td>
</tr>
<tr>
<td><img src="icon" alt="selected" /></td>
<td>Selected to be modified</td>
</tr>
<tr>
<td><img src="icon" alt="passcode" /></td>
<td>Pass code protected</td>
</tr>
</tbody>
</table>

* If powering the base station with batteries.
### Pushbuttons

#### Docking Module Pushbuttons

Table 4. Docking Module Pushbuttons

<table>
<thead>
<tr>
<th>Pushbutton</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø BUMP CHECK</td>
<td>To bump test a detector, press Ø <strong>BUMP CHECK</strong>. After connecting a new docking module, press and hold Ø <strong>BUMP CHECK</strong> to send a confirmation signal back to the base station.</td>
</tr>
<tr>
<td>Ø CALIBRATION</td>
<td>To calibrate a detector, press Ø <strong>CALIBRATION</strong> (all models excluding GasAlertClip Extreme).</td>
</tr>
<tr>
<td>Ø DATA TRANSFER</td>
<td>To transfer data from a detector, press Ø <strong>DATA TRANSFER</strong>. (GasAlert Extreme, GasAlertMicroClip / XT, GasAlertMax XT / II, and GasAlertQuattro only). The Automatic Datalog Download option is available for the GasAlertMicroClip / XT, GasAlertMax XT / II, and GasAlertQuattro docking modules only. For more information, refer to Automatic Datalog Download.</td>
</tr>
</tbody>
</table>

#### Base Station Pushbuttons

Figure 3. Base Station Pushbuttons

The base station pushbuttons activate, deactivate, scroll, select options, and perform functions.
Table 5. Base Station Pushbuttons

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1    | • Activate the base station  
      • Select **menu** to access the user options  
      • Select ← to scroll to different user options or to other functions/selections within a user option  
      • Select **OK** |
| 2    | • Select **log** to view the results history log  
      • Select **sel** to select an option  
      • Access a modifiable field |
| 3    | • Select **exit** to exit from a modifiable option  
      • Select **exit** from the user options menu to enter normal operation |
| 4    | • Deactivate the base station  
      • Select ↓ to scroll to different user options or to other functions/selections within a user option |

Figure 4. Base Station Connections
### Table 6. Base Station Connections

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Inlet filter assembly (PURGE 1)</td>
</tr>
<tr>
<td>2</td>
<td>C-cell batteries (4)</td>
</tr>
<tr>
<td>3</td>
<td>Battery cover</td>
</tr>
<tr>
<td>4</td>
<td>Phillips pan head retaining screws (2)</td>
</tr>
<tr>
<td>5</td>
<td>MMC or SD card</td>
</tr>
<tr>
<td>6</td>
<td>Battery compartment</td>
</tr>
<tr>
<td>7</td>
<td>Charger port</td>
</tr>
<tr>
<td>8</td>
<td>USB port</td>
</tr>
<tr>
<td>9</td>
<td>Power port</td>
</tr>
<tr>
<td>10</td>
<td>Exhaust outlet</td>
</tr>
<tr>
<td>11</td>
<td>Gas cylinder</td>
</tr>
<tr>
<td>12</td>
<td>Demand flow regulator</td>
</tr>
<tr>
<td>13</td>
<td>Calibration gas hose</td>
</tr>
</tbody>
</table>

⚠️ **Warning**

Use the base station in a fresh air environment. Do not use the base station in a hazardous area.

Follow all required National Electrical Codes (NEC) and safety standards.

⚠️ **Caution**

Do not remove the battery cover while the base station is activated.
1. Connect the power cord to the POWER port on the base station and then plug the cord into an AC outlet.

To install the batteries, refer to Battery Installation.

2. Connect the charger cord to the CHARGER port on the base station and then plug the cord into an AC outlet (if charging detectors with the docking modules).

3. Attach all gas connections. Inlet 1 (PURGE) is configured for ambient air and inlets 2-5 are configured for calibration/test gases. Refer to Confirming Inlet Setup.

Note

If not using the base station in a fresh air environment, use a zero air gas cylinder for Inlet 1.

4. Connect the demand flow regulator. A demand flow regulator must be used with all gas cylinder connections.

5. Ensure the exhaust line is not connected to a negative pressure system.

For AC main installation, a circuit breaker must be integrated in the building installation as a disconnect device for the base station.

The disconnect device must be installed in close proximity to the base station and must be marked as a disconnecting method for the base station.

### Battery Installation

**⚠️ Warning**

Only change batteries in a fresh air environment. Do not charge the batteries in a hazardous area. Failure to adhere to this warning can result in personal injury and/or property damage. Use only Alkaline C-size batteries.

To install batteries in the base station, refer to Figure 4, and complete the following:

1. Loosen the retaining screws from the battery cover. Do not remove the retaining screws from the battery cover.

2. Remove the battery cover.

3. Insert four C-cell batteries into the battery compartment.

4. Replace the battery cover and tighten the retaining screws. Do not over tighten the screws. Refer to Table 13.
Inserting the GasAlertClip Extreme and the GasAlert Extreme

⚠️ Caution

Infrared or intense ambient light (sun or halogen) may interfere with the base station/detector communication.

Figure 5. Inserting the GasAlertClip Extreme and the GasAlert Extreme

Table 7. Inserting the GasAlertClip Extreme and the GasAlert Extreme

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Alligator clip</td>
</tr>
<tr>
<td>2</td>
<td>Docking module lid</td>
</tr>
<tr>
<td>3</td>
<td>Release tabs</td>
</tr>
<tr>
<td>4</td>
<td>Detector bay</td>
</tr>
</tbody>
</table>

Note

If the GasAlertClip Extreme or GasAlert Extreme is fitted with a calibration cap, it must be removed prior to inserting the detector into the docking module.

1. Activate the detector and wait until it is in normal operation.
2. Ensure the alligator clip is closed and the ring is resting flat to prevent disruptions with the data transmission.
3. Press the two release tabs on the docking module and raise the lid.
4. Lower the detector (serial number label up) into the detector bay. Push forward to ensure the top of the detector connects with the top of the bay.
5. Lower the lid and press down until the release tabs click. When the detector has been inserted correctly, the RUN LED(s) on the docking module lights yellow and the base station LCD displays the
   • the docking module number,
   • **Unit Inserted**, 
   • detector type, and
   • detector serial number.

![Image](image.png)

*Note*

*The serial number displays when a GasAlert Extreme is inserted.*

6. To bypass the base station identification screen, press any button on the base station.
Inserting the GasAlertMicro

⚠️ Caution
Infrared or intense ambient light (sun or halogen) may interfere with the base station/detector communication.

![Figure 6. Inserting the GasAlertMicro](image)

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Docking module lid</td>
</tr>
<tr>
<td>2</td>
<td>Release tabs</td>
</tr>
<tr>
<td>3</td>
<td>Detector bay</td>
</tr>
<tr>
<td>4</td>
<td>Charge status indicator (charging model only)</td>
</tr>
<tr>
<td>5</td>
<td>Connector pins (charging model only)</td>
</tr>
<tr>
<td>6</td>
<td>Alligator clip</td>
</tr>
</tbody>
</table>

Table 8. Inserting the GasAlertMicro

Note
If the GasAlertMicro is fitted with a calibration cap, it must be removed prior to inserting the detector into the docking module.

7. Activate the detector and wait until it is in normal operation.

8. Ensure the alligator clip is closed and the ring is resting flat on the detector to prevent disruptions with data transmission.

9. Press the two release tabs on the docking module and raise the lid.

10. Insert the bottom of the detector into the detector bay (serial number label up) and then lower the top into place.
11. Lower the lid and press down until the release tabs click.

When the detector has been inserted correctly, the RUN LED(s) on the docking module lights yellow and the base station LCD displays the

- the docking module number,
- **Unit Inserted**,  
- detector type, and
- detector serial number.

12. To bypass the base station identification screen, press any button on the base station.
**Inserting the GasAlertMicro 5/PID/IR**

*Note*

The GasAlertMicro 5, GasAlertMicro 5 PID, and GasAlertMicro 5 IR are referenced as the GasAlertMicro 5/PID/IR.

The GasAlertMicro 5/PID/IR rechargeable battery pack can be charged separately from the detector. Refer to **Inserting the GasAlertMicro 5/PID/IR Battery Pack**.

⚠️ **Caution**

Infrared or intense ambient light (sun or halogen) may interfere with the base station/detector communication.

---

**Figure 7. Inserting the GasAlertMicro 5/PID/IR**

*Note*

Table 9 references Figure 7 and Figure 8.
Note

If the GasAlertMicro 5/PID/IR is fitted with a calibration cap or pump auxiliary filter, it must be removed prior to inserting it into the docking module.

1. Activate the detector and wait until it is in normal operation.
2. Ensure the alligator clip is closed and the ring is resting flat on the detector to prevent disruptions with data transmission.

3. Press the two release tabs on the docking module and raise the lid.

Important: If the GasAlertMicro 5/PID/IR detector is fitted with a pump, the diffusion adapter must be removed from the docking module lid.

Figure 8. Removing the Diffusion Adapter

Using a small flathead screwdriver, press the release tab downwards. Pull the adapter forward slightly and then lift upwards to remove.
4. Hold the detector (serial number label down) at a 45° angle and insert the bottom into the detector bay.
   Ensure that the connector outlets on the bottom of the detector lock into place over the connector pins in the docking bay, and then lower the top into place.

5. Lower the lid and press down until the release tabs click.
   When the detector has been inserted correctly, the RUN LED(s) on the docking module lights yellow and the base station LCD displays the
   - the docking module number,
   - **Unit Inserted**, 
   - detector type, and
   - detector serial number.

![Bay 10 Unit Inserted GasAlertMicro 5SE105-001075](image)

The GasAlertMicro 5/PID/IR detector LCD displays **Microdock**.

6. To bypass the base station identification screen, press any button on the base station.

---

**Inserting the GasAlertMicro 5/PID/IR Battery Pack**

To insert the lithium battery pack, refer to Figure 9. and the following procedure.

![Figure 9. Removing the Micro 5/PID/IR Lithium Battery Pack](image)

1. Open the latch on the bottom of the detector.
2. Remove the battery pack by lifting the bottom of the pack upward from the detector.

⚠️ **Warning**

_Do not disassemble lithium battery packs._
3. Hold the battery pack (serial number label down) at a 45° angle and insert the bottom into the detector bay.

   Ensure that the connector outlets on the bottom of the battery pack lock into place over the connector pins in the docking bay, and then lower the top into place.

4. Lower the lid and press down until the release tabs click.

   The base station beeps and the Charge Status LED lights red.
Inserting the GasAlertMicroClip / GasAlertMicroClip XT

⚠️ **Caution**

Infrared or intense ambient light (sun or halogen) may interfere with the base station/detector communication.

**Figure 10. Inserting the GasAlertMicroClip / GasAlertMicroClip XT**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Module lid</td>
</tr>
<tr>
<td>2</td>
<td>Release tabs</td>
</tr>
<tr>
<td>3</td>
<td>Detector bay</td>
</tr>
<tr>
<td>4</td>
<td>Alligator clip</td>
</tr>
<tr>
<td>5</td>
<td>Charger status indicator</td>
</tr>
</tbody>
</table>

**Note**

GasAlertMicroClip is shown in Figure 10.

Table 10. Inserting the GasAlertMicroClip / GasAlertMicroClip XT

**Warning**

The docking module lid only raises upward 30° angle. Do not force the lid beyond its limit.

1. Activate the detector and wait until it is in normal operation.
2. Press the two release tabs on the docking module and raise the lid.
3. Insert the bottom of the detector (serial number label up) at a 30° angle into the detector bay and then lower the top into place.
4. Lower the lid and press down until the release tabs click.

When the detector has been inserted correctly, the RUN LED(s) on the docking module lights yellow and the base station LCD displays the

- the docking module number,
- **Unit Inserted**,  
- detector type, and
- detector serial number.

![Docking Module Inserted]

**Note**

When the detector is inserted, the base station LCD displays GasAlertMicroClip.

*Use the serial number prefix to differentiate between GasAlertMicroClip (KA1, KA2, KA3) and GasAlertMicroClip XT (KA4).*

5. To bypass the base station identification screen, press any button on the base station.
Inserting the GasAlertMax XT / GasAlertMax XT II

⚠️ Caution

Infrared or intense ambient light (sun or halogen) may interfere with the base station/detector communication.

![Figure 11. Inserting the GasAlertMax XT / GasAlertMax XT II](image)

1. Activate the detector and wait until it is in normal operation.
2. Ensure the alligator clip is closed and the ring is resting flat on the detector to prevent disruptions with data transmission.
3. Ensure the pump connector is pushed up.
4. Press the two release tabs on the docking module and raise the lid.
5. Insert the bottom of the detector (serial number label up) at a 30° angle into the detector bay and then lower the top into place.
6. Push the pump connector towards the detector pump.

⚠️ Warning

The docking module lid only raises upward at a 30° angle. Do not force the lid beyond its limit.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Detector pump</td>
</tr>
<tr>
<td>2</td>
<td>Alligator clip</td>
</tr>
<tr>
<td>3</td>
<td>Charge status</td>
</tr>
<tr>
<td>4</td>
<td>Module lid</td>
</tr>
<tr>
<td>5</td>
<td>Release tabs</td>
</tr>
<tr>
<td>6</td>
<td>Detector bay</td>
</tr>
<tr>
<td>7</td>
<td>Pump connector</td>
</tr>
</tbody>
</table>

Table 11. Inserting the GasAlertMax XT / GasAlertMax XT II
Note

The detector will briefly alarm when the pump connector is inserted. This is normal. The alarm will deactivate when the detector is properly inserted into the docking module.

Ensure the arrow on the dock is aligned with the guides on the pump connector.

Figure 12. Aligning the Arrows on the GasAlertMax XT / GasAlertMax XT II Docking Module

7. Lower the lid and press down until the release tabs click.

When the detector has been inserted correctly, the RUN LED(s) on the docking module lights yellow and the base station LCD displays the

- detector type, and
- detector serial number.

8. To bypass the base station identification screen, press any button on the base station.

⚠️ Caution

When removing the detector, ensure the pump connector has been pushed up first.
Inserting the GasAlertQuattro

⚠️ Caution

Infrared or intense ambient light (sun or halogen) may interfere with the base station/detector communication.

**Figure 13. Inserting the GasAlertQuattro**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GasAlertQuattro</td>
</tr>
<tr>
<td>2</td>
<td>Charge status</td>
</tr>
<tr>
<td>3</td>
<td>Connector pins</td>
</tr>
<tr>
<td>4</td>
<td>Detector bay</td>
</tr>
<tr>
<td>5</td>
<td>Module lid</td>
</tr>
<tr>
<td>6</td>
<td>Release tabs</td>
</tr>
</tbody>
</table>

**Table 12. Inserting the GasAlertQuattro**

- **Note**

*If the GasAlertQuattro is fitted with a calibration cap or auxiliary filter, it must be removed prior to inserting the detector into the docking module.*

*When the GasAlertQuattro is inserted into a docking module, the detector may take up to 20 seconds before beginning charging.*

1. Activate the detector and wait until it is in normal operation.
2. Ensure the alligator clip is closed and the ring is resting flat on the detector to prevent disruptions with data transmission.
3. Press the two release tabs on the docking module and raise the lid.
4. Insert the bottom of the detector (LCD up) at a 30° angle into the detector bay and then lower the top into place.
5. Close the lid and press until the release tabs click.

When the detector has been inserted correctly, the RUN LED(s) on the docking module lights yellow and the base station LCD displays the

- the docking module number,
- **Unit Inserted**,  
- detector type, and
- detector serial number.

The detector’s LCD displays the following screen.

6. To bypass the base station identification screen, press any button on the base station.

---

**Inserting the GasAlertQuattro Battery Pack**

To insert the GasAlertQuattro battery pack into the detector bay, refer to Figure 14. and the following procedure.

---

**Figure 14. Removing the GasAlertQuattro Battery Pack**

1. Deactivate the detector.
2. Push the battery release latch toward the top of the detector to release the battery pack.
3. From the top of the battery pack, lift the battery pack upward to remove.
4. Insert the bottom of the battery pack (serial number label down) at a 30° angle into the detector bay and then lower the top into place.

   The docking module beeps and the Charge Status LED lights red.
Adding Another Docking Module

If required, refer to Using the Base Station before adding a docking module.

⚠️ Warning

Only one module can be connected at a time. Complete steps #1-20 for each docking module that is added.

To add another docking module, refer to:

- Table 13.
- Table 14.,
- Figure 15.,
- Figure 16., and
- Figure 17.,

and complete the following procedures:

Table 13. Torque Specifications

<table>
<thead>
<tr>
<th>Housing Assembly</th>
<th>Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alligator clip</td>
<td>4-5 in lbs</td>
</tr>
<tr>
<td>Wall mounting plate</td>
<td>9-10 in lbs</td>
</tr>
</tbody>
</table>

Table 14. Adding Another Docking Module

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Phillips pan-head screw (3)</td>
</tr>
<tr>
<td>2</td>
<td>End plate</td>
</tr>
<tr>
<td>3</td>
<td>Barbed fitting ports</td>
</tr>
<tr>
<td>4</td>
<td>Gasket block</td>
</tr>
<tr>
<td>5</td>
<td>Phillips flat-head screw</td>
</tr>
<tr>
<td>6</td>
<td>PCB connectors</td>
</tr>
<tr>
<td>7</td>
<td>Bottom cover plate</td>
</tr>
</tbody>
</table>
Figure 15. Adding Another Docking Module (Front View)
Figure 16. Adding Another Docking Module (Back View)
Figure 17. Attaching Back Cover Plate (Back View)
1. Deactivate the base station.
2. Remove the power cord from the POWER port. If applicable, remove the charger cord from the CHARGER port.
3. Remove the end plate. There are three Phillips screws on the front and three Phillips screws on the back.
4. Attach the new docking module.
   Ensure the barbed fitting ports mate correctly with the gasket block. Ensure that the male and female PCB connectors mate correctly.

**Initializing the New Docking Module**

When a new docking module is connected, it must be initialized (setup to communicate with the base station).

5. Simultaneously press and hold **CBUMP CHECK** on the new docking module while pressing **C** (leftmost button) on the base station.
6. All of the LEDs on the new docking module light. On the base station LCD, the following screen displays to confirm that the new docking module has been successfully added.

```
New Receptacle added
Position 8 OK
```

7. Press **OK**.
8. Deactivate the base station.

⚠️ **Caution**

The base station must be deactivated after each module has been added.

**Defining Pump Speed**

The pump speed must be defined for each new docking module that is connected.

⚠️ **Warning**

Perform the pump setup procedures in a fresh air environment. Do not perform the pump setup procedures in a hazardous area.

1. Reactivate the base station and wait until it enters normal operation.
2. Connect a hose to a flow meter and to inlet 1 (PURGE) on the base station.
   Allow the flow meter sufficient time to stabilize (approximately 30 minutes) before using it to ensure accurate flow readings.
3. From the base station, access the user options menu.
4. Press **~** or **↓** to scroll to the **Pump Setup** option.
5. Press **Sel** to activate the pump setup field (‖ changes to ●).

```
Time/Date
Inlet Setup,
Pump Setup* 44%
Sel exit ◄
```

The base station immediately begins pumping the ambient air.
The factory default pump speed displays beside **Pump Setup**. The base station pump speed is measured as a percentage (%) and the flow meter measures speed in ml/min.

**Note**

*The base station is shipped with the factory default pump speed set to 350 ml/min. (40-45%).*

6. Monitor the flow meter until it stabilizes (5-20 minutes depending upon the type of flow meter).

7. From the base station, press \(\text{↑}\) or \(\text{↓}\) until the flow meter displays 350 ml/min.

8. From the base station, press \(\text{exit}\) to save the new value and exit the **Pump Setup** field (\(\text{✓}\) changes to \(\text{○}\)).

9. Press \(\text{exit}\) again to return to normal operation.

10. Repeat steps #1-17 for each docking module that is added. Continue to step #18 and 19 for the last module added.

11. After all of the modules have been added, attach the end plate. Refer to Figure 15.

12. Fasten the bottom cover plate to the space between the two docking modules using six Phillips flat-head screws. Refer to Figure 17.

**Note**

*When assembling or reassembling parts of the base station and docking modules, refer to the Table 13.*

---

**Mounting the MicroDock II**

![Figure 18. Attaching the Wall Mounting Plate](image)

**Note**

*When mounting two or more docking modules, each docking module requires an individual set of wall mounting plates.*

*Because of the variety of surfaces that the base station can be mounted to, mounting screws are not provided.*
The base station and docking modules can be easily mounted to a secure surface. To mount the base station and docking modules, complete the following:

1. Determine a secure location to mount the base station.

   Using the screws that are provided, attach the wall mounting plates to the base station and docking modules.

### Table 15. Mounting the MicroDock II

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Wall mounting plate (2)</td>
</tr>
<tr>
<td>2</td>
<td>Grommet (4)</td>
</tr>
<tr>
<td>3</td>
<td>Phillips self-tapping screw (8)</td>
</tr>
</tbody>
</table>
2. When the plates are mounted on the base station, measure horizontally on the wall a distance of 2.38 in. (60.32 mm) for the base station width.

If mounting two or more docking modules that are attached on the wall, measure horizontally on the wall a distance of 1.64 in. (41.7 mm) of space between each docking module.

3. Use four screws to attach the base station to the secure surface.
Changing Dip Switch Settings (GasAlertClip Extreme only)

The gas type for bump tests is defined by setting the dip switch within the GasAlertClip Extreme docking module.

Table 16. Dip Switch Settings

<table>
<thead>
<tr>
<th>Gas Type</th>
<th>Dip Switch Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulphur dioxide (SO₂)</td>
<td><img src="Image" alt="Dip Switch Setting" /></td>
</tr>
<tr>
<td>Oxygen (O₂)</td>
<td><img src="Image" alt="Dip Switch Setting" /></td>
</tr>
<tr>
<td>Hydrogen sulfide (H₂S)</td>
<td><img src="Image" alt="Dip Switch Setting" /></td>
</tr>
<tr>
<td>Carbon monoxide (CO)</td>
<td><img src="Image" alt="Dip Switch Setting" /></td>
</tr>
</tbody>
</table>

To change the dipswitch setting on a GasAlertClip Extreme docking module refer to Tables 15 and 16, Figures 16 and 17, and complete the following:

1. Deactivate the base station.
2. Remove the three Phillips pan-head screws from the front and the six Phillips flat-head screws from the back cover plate.
3. Gently separate the docking module from the base station or other docking modules. Refer to Figure 20.
4. Configure the gas type by setting the dip switches to the desired gas. Refer to Table 16, for gas type and dip switch settings.
5. Reconnect the GasAlertClip Extreme docking module. Refer to Figure 21.
6. Fasten the bottom cover plate using the six Phillips flat-head screws. Fasten the remaining three Phillips pan-head screws to the top of the docking module.

Table 17. Changing Dip Switch Settings

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bottom cover plate</td>
</tr>
<tr>
<td>2</td>
<td>Phillips flat-head screw (6)</td>
</tr>
<tr>
<td>3</td>
<td>Phillips pan-head screw (3)</td>
</tr>
<tr>
<td>4</td>
<td>Barbed fitting ports</td>
</tr>
<tr>
<td>5</td>
<td>Dip switch</td>
</tr>
</tbody>
</table>
Note

When reattaching the docking module, ensure the barbed tubing is inserted correctly. Ensure to correctly label the gas type on the docking module.

Figure 20. Detaching the GasAlertClip Extreme Module
Using the Base Station

⚠️ Warning
To prevent possible injury and/or property damage, only use the base station in a fresh air environment. Do not use the base station in a hazardous area.

Ensure that the base station is attached to a venting system or used in a well ventilated area.

The base station pushbuttons are not labelled. The base station is operated by pressing the pushbutton that is located directly below the text that displays on the LCD.

Confirming Inlet Setup

⚠️ Warning
Failed tests can result if the inlets are not setup correctly.

Before activating the base station for the first time, ensure that the gas cylinders are connected to the inlets correctly. Refer to Installation. To confirm that the inlets are setup correctly, refer to Inlet Setup in the User Options Menu section.

Note
If not using the base station in a fresh air environment, use a zero air gas cylinder for Inlet 1.

Activating the Base Station

To activate the base station, complete the following:

1. Connect power to the base station. Refer to Installation.
2. Press and hold \( \text{C} \) (the left most button) until the initializing screen displays.

![Initializing MicroDock II]

The base station enters normal operation.

![08/22/05 14:33 MicroDock II menu log off]

**Self-Test**

The base station automatically performs a self-test during startup.

**Docking Module/Detector:** The base station checks for connected docking modules and inserted detectors.

![Bay 7 Unit Inserted GasAlertMicro 4577587]

The LCD displays information about the docking modules, the detector type, and the detector serial number.
If a detector is inserted but not activated, the LCD displays the following message.

Press OK to acknowledge the error message.

**Batteries:** The batteries are tested during activation and continuously thereafter. If battery power is extremely low, low battery icon flashes.

**MultiMediaCard (MMC) / Secure Digital (SD) Card:** The MMC/SD card icon displays continuously on the base station LCD during normal operation when the MMC/SD card is inserted. The MMC/SD card records a variety of data.

**Pass Code Protection:** If the base station is pass code protected, the pass code protect icon displays on the base station LCD during normal operation.

---

**Deactivating the Base Station**

To deactivate the base station, it must be in normal operation. From the normal operation screen, press and hold (the rightmost button) until **Powering Down** displays.

The powering down screen displays briefly before the base station deactivates.
User Options Menu

The user options menu provides access to ten options. The following user options are listed in the order they are displayed on the base station LCD.

Note

Bump tests or calibrations cannot be performed while accessing the user options menu. However, if a test is initiated before or while accessing the user options menu, the test automatically begins after exiting the user options menu.

To access the user options menu, complete the following:

1. Press and hold menu to access the first screen.

If the base station is pass code protected, refer to Entering User Options When Pass Code Protected.

2. Press ▲ or ▼ to scroll to different options. When > displays beside the desired option, press sel to select.

3. To exit the options menu and return to the normal operation, press exit.

Time/Date

Time/Date adjusts the time (hour/minute), the date (month/day/year) and the day of the week (1-7) of the base station.

To change the date, time, and/or day of the week, complete the following:

1. From the user options menu, press ▲ or ▼ to scroll to the Time/Date option.

Press sel to confirm the selection and access the time/date screen.

| mm: month |
|---|---|
| dd: day |
| yy: year |
| hh: hour |
| mm: minute |
| d: day of the week |

Note

The time and date values can only be changed in the order they are presented in this table. To bypass any time/date setting, press sel. The base station automatically retains the current value and proceeds to the next date/time value.
The cursor automatically displays below the first value of the month. Each value is selected, changed, and bypassed individually.

2. Press \( \circ \) \( \leftarrow \) to toggle between 0 or 1. When the correct value displays, press \( \circ \) \( \text{sel} \) to confirm the change. The cursor then automatically moves to the second value of the month.

Or

Press \( \circ \) \( \text{sel} \) to bypass the first value. The base station automatically retains the current value and proceeds to the second value of the month.

3. Repeat step #2 for the remaining time and date values.

4. Press \( \circ \) \( \text{exit} \) to return to the user options menu.

5. Press \( \circ \) \( \text{exit} \) again to return to normal operation.

\section*{Inlet Setup}

**Inlet Setup** defines the

- the gas type(s)
- the corresponding gas concentrations level(s), and
- the gas cylinder lot # of each selected gas.

\section*{Warning}

**Failed tests can result if the inlets are not setup correctly.**

For initial base station activation, ensure the inlets are installed correctly as follows:

- Inlet 1 is the default connection for ambient air.
- Inlet 2 is the default connection for four-gas mix, unless otherwise specified at purchase.
- Inlets 3-5 are designed connections for additional gases. However, unless specified at the time of purchase, inlets 3-5 are configured for ambient air.

To confirm that the inlets are setup correctly, complete the following:

1. From the user options menu, press \( \circ \) \( \leftarrow \) or \( \circ \) \( \uparrow \) to scroll to the **Inlet Setup** option.

2. Press \( \circ \) \( \text{sel} \) to confirm the selection and access the inlet 1 (ambient air) screen.

\begin{figure}
\centering
\includegraphics[width=0.5\textwidth]{inlet_setup.png}
\caption{Inlet setup screen.}
\end{figure}

\textbf{Note}

**Inlet 1 is designated for ambient air only and cannot be changed.**

3. From the inlet 1 screen, press \( \circ \) \( \rightarrow \) to access the inlet 2 screen.

\begin{figure}
\centering
\includegraphics[width=0.5\textwidth]{inlet_2_screen.png}
\caption{Inlet 2 screen.}
\end{figure}
Continue to press \( \textcircled{\text{3}} \text{ } \text{2} \text{ } \text{1} \) to access the inlet 3, 4, and 5 screens. \( \text{O}_2 \) displays as the default gas type when each of the inlet screens are accessed for the first time.

The inlet screens (2-5) have three options to modify:

- **Gas Type**
- **Gas Concentration Level**
- **Gas Cylinder Lot # Field** (field initially displays blank until data is entered).

There are two types of screens:

- Single gas
- Multi-gas Type Screen

4. To select a gas type, proceed to **Gas Type**. Refer to **Table 17.** for available gas types.

**Gas Type**

There are 33 gas types to select from. Refer to the following table.

**Table 18. Inlets 2-5 – Available Gas Types**

<table>
<thead>
<tr>
<th>Gas Type</th>
<th>Gas Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purge (ambient air)</td>
<td>%</td>
</tr>
<tr>
<td>( \text{O}_2 ) (oxygen)</td>
<td>%</td>
</tr>
<tr>
<td>( \text{NH}_3 ) (ammonia)</td>
<td>ppm</td>
</tr>
<tr>
<td>( \text{CO} ) (carbon monoxide)</td>
<td>ppm</td>
</tr>
<tr>
<td>ETO (ethylene oxide)</td>
<td>ppm</td>
</tr>
<tr>
<td>( \text{H}_2 ) (hydrogen)</td>
<td>ppm</td>
</tr>
</tbody>
</table>

* indicates that the gas concentration level can be modified on the base station.
### MicroDock II

**User Options Menu**

**Note**

Scroll through options and functions when \( \rightarrow \) displays. \( \star \) displays when a field is selected and can be modified.

To select a gas type, complete the following:

5. From the required inlet screen, \( \rightarrow \) displays.

6. If the required gas type is displayed, press \( \bigcirc \) \( \downarrow \) to move down to the gas concentration level. Proceed to the Gas Concentration Level section.

#### Gas Type | Gas Concentration
---|---
Cl\(_2\) (chlorine) **bump only** | ppm
HCN (hydrogen cyanide) | ppm
H\(_2\)S (hydrogen sulfide) | ppm
NO (nitric oxide) | ppm
NO\(_2\) (nitrogen dioxide) | ppm
PH\(_3\) (phosphine) | ppm
SO\(_2\) (sulfur dioxide) | ppm
Ethanol | % LEL
Ethanol Equiv. | % LEL
Hexane | % LEL
Hexane Equiv. | % LEL
Methane | % LEL
Methane Equiv. | % LEL
Pentane | % LEL
Pentane Equiv. | % LEL
Propane | % LEL
Propane Equiv. | % LEL
4 – Gas 2.5%vCH\(_4\) (H\(_2\)S, CO, LEL, O\(_2\)) | ppm and %LEL
4 – Gas Equiv. | ppm and %LEL

#### Gas Type | Gas Concentration
---|---
Custom 4-Gas | ppm and %LEL
Custom 3-gas | ppm and %LEL
Custom 2-Gas | ppm and %LEL
3 – Gas SO\(_2\) Mi (3-gas mix) | ppm and %LEL
Isobutylene | ppm
LEL | %LEL
CO\(_2\) | ppm
CO\(_2\) zero / N\(_2\) (nitrogen) | ppm

---

* ppm and %LEL
7. To select a different gas type, press \( \text{SEL} \) \( \rightarrow \) changes to \( \checkmark \) to indicate that the field is activated. Press \( \wedge \) or \( \vee \) to scroll through the list of gas types.

8. When the desired gas type displays, press \( \text{SEL} \) \( \checkmark \) changes to \( \rightarrow \) to confirm the new selection and to deactivate the field.

9. To enter the gas concentration level for the selected gas, proceed to the following section Gas Concentration Level.

Or

Press \( \text{EXIT} \) to return to the user options menu.

10. Press \( \text{EXIT} \) again to return to normal operation.

Gas Concentration Level

Depending upon the gas type selected, ppm, \%LEL, or \% displays beside the gas concentration level.

Note

The following gas concentrations are factory configured and cannot be changed:

- Four-gas-mix (4-Gas 2.5% \( vCH_4 \))
- Four-gas equivalent (4-Gas Equiv.)
- Three-gas \( SO_2 \) mix (3-Gas \( SO_2 \) Mi)
- The Custom 4-Gas, Custom 3-Gas, and Custom 2-Gas can be modified. However, only the gas concentration levels can be changed.

11. Press \( \vee \) to move \( \rightarrow \) down to the gas concentration level.

12. Press \( \text{SEL} \) If the gas concentration level can be modified, \( \rightarrow \) changes to \( \checkmark \) and the cursor displays below the first value.

For custom and multi-gas: All of the applicable gases display (for 4-Gas press \( \vee \) to scroll to the remaining gas types currently not displayed).
Press ○ sel to select the required gas. → changes to ✴ and the cursor automatically displays below the first value.

13. Press ○ ▼ or ○ ▲ to scroll to the required value. Press ○ sel to save the new value.
   Or
   Press ○ sel to retain the current value. The cursor automatically moves to the next value.

14. Repeat step #13 for the remaining values, then press ○ exit. ✴ then changes back to →.

15. To enter a lot number for the corresponding gas cylinder, proceed to Gas Cylinder Lot # Field.
   Or
   Press ○ exit to return to the user options menu.

16. Press ○ exit again to return to normal operation.

---

**Gas Cylinder Lot # Field**

Although this field is designed to enter the lot number of the corresponding gas cylinder, other types of data can be entered. A maximum of 14 characters (letters and/or numbers) can be selected.

17. Press ○ ▼ to move down to the lot number field. Initially this field is blank.

18. Press ○ sel. → changes to ✴ and the cursor displays for the first value.

19. Press ○ ▼ or ○ ▲ to scroll to the first desired letter/number. Press ○ sel to accept the value and automatically move the cursor to the next space.
20. Repeat step #19 for the remaining values.

The following screen displays the corresponding lot number for the attached gas cylinder.

21. Press exit. \( \bullet \) changes back to \( \rightarrow \).

22. To setup another inlet, repeat the procedures listed in the Gas Type, Gas Concentration Level, and the Gas Cylinder Lot # Field sections.

23. When all of the entries are completed, press exit to return to the user options menu.

24. Press exit again to return to normal operation.

**Pump Setup**

Refer to Defining Pump Speed in the Adding Another Docking Module section.

---

**Contrast**

Contrast brightens or darkens the LCD. To adjust the contrast level, complete the following:

1. From the user options menu, press \( \bullet \) or \( \downarrow \) to scroll to the Contrast option.

2. Press sel to confirm the selection and access the field (\( \bullet \) changes to \( \bullet \)).

The contrast levels range from 2 (brightest) to 10 (darkest).

**Note**

The base station is shipped with the contrast level defined as 5.

3. Press \( \bullet \) or \( \downarrow \) to select the desired contrast level.

4. Press sel to save the new value and exit the field (\( \bullet \) changes back to \( \bullet \)).
5. Press \( \textcircled{\uparrow} \) or \( \textcircled{\downarrow} \) to scroll to another user option. 
Or 
Press \( \textcircled{\text{exit}} \) to return to the normal operation.

**Backlight**

**Backlight** enables, disables, or selects auto mode for the LCD lighting. The auto mode automatically disables the backlight when the base station is not in use.

*Note*

*The base station is shipped with the auto backlight option enabled. While operating from battery power only, select auto mode or \( \text{x} \) (off) to conserve the batteries.*

To enable/disable or select auto backlight, complete the following:

1. From the user options menu, press \( \textcircled{\uparrow} \) or \( \textcircled{\downarrow} \) to scroll to the Backlight option.
2. Press \( \textcircled{\text{sel}} \) to select the option and access the field (\( \text{\textcircled{\text{c}}} \) changes to \( \text{\textcircled{\text{e}}} \)).
3. Press \( \textcircled{\uparrow} \) or \( \textcircled{\downarrow} \) to scroll through the options.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>( \checkmark )</td>
<td>Enabled</td>
</tr>
<tr>
<td>( \times )</td>
<td>Disabled</td>
</tr>
<tr>
<td><strong>auto</strong></td>
<td>Automatic</td>
</tr>
</tbody>
</table>

Each selection displays beside **Backlight** and the backlight activates and deactivates, depending upon the selection.

4. Press \( \textcircled{\text{sel}} \) to save the selection and exit the field (\( \text{\textcircled{\text{c}}} \) changes back to \( \text{\textcircled{\text{e}}} \)).
5. Press \( \textcircled{\uparrow} \) or \( \textcircled{\downarrow} \) to scroll to another user option. 
Or 
Press \( \textcircled{\text{exit}} \) to return to normal operation.

**About**

**About** displays the firmware revision for the base station and each docking module that is connected. To view the firmware revision for the base station and docking module(s), complete the following:

1. Press \( \textcircled{\uparrow} \) or \( \textcircled{\downarrow} \) to scroll to the About option.
Press \( \textcircled{2} \) sel to access the about base station screen.

If more than one docking module is connected to the base station, press \( \textcircled{2} \) or \( \textcircled{7} \) to scroll to the additional docking module firmware revisions (M1 - M8).

Note

Maximum eight docking modules can be connected to a station. There is a maximum limit of six charging modules. Six charging modules plus two non-charging modules can be connected to the station.

2. Press \( \textcircled{2} \) exit to return to the user options menu.

3. Press \( \textcircled{2} \) exit again to return to normal operation.

Formatting the MMC/SD Card

Format MMC formats the MultiMediaCard (MMC) or the Secure Digital (SD) card.

⚠️ Caution

Formatting a MMC/SD card will erase all data on the card.

To format an MMC/SD card, complete the following:

1. Activate the base station if required.

2. On the base station, remove the cover from the battery compartment. Refer to Battery Installation.

3. Insert the MMC/SD card into the slot above the battery compartment.

4. Press \( \textcircled{2} \) or \( \textcircled{7} \) to scroll to the Format MMC option.

Figure 22. Inserting the MMC/SD Card into the Base Station

Note

If the MMC/SD card has never been formatted, the base station will automatically prompt to format the card (refer to steps #5-6).
5. Press \( \text{ sel} \) to confirm the selection and to access the formatting confirmation screen.

![Format MMC?]

All data will be erased.
Yes No

6. Press \( \text{ Yes} \) to initiate formatting. The following screen displays.

![Formatting MMC...]

When formatting is complete, the LCD automatically returns to the user options menu.

If No is selected, the LCD automatically returns to the user options menu.

If there is a problem with the card, the following screen displays.

![Error formatting MMC. Please try another card. OK]

Press \( \text{ OK} \) to acknowledge and insert a new card and repeat steps #4-6.

7. Press \( \text{ } \) or \( \text{ } \) to scroll to another user option.

Or

Press \( \text{ exit} \) to return to normal operation.

For additional information about the MMC/SD card, refer to Base Station MMC/SD Card.

**Inlet Select**

*Note*

Applicable only to custom and multi-gas types.

**Inlet Sel** enables either the automatic (auto) or manual (manu) function for selecting an inlet.

If the **auto** option is enabled, the base station automatically selects the correct gas inlet for the bump test or calibration.

If **manu** option is enabled, the applicable test gas must be selected each time a bump test or calibration is performed. If the **manu** option is enabled, refer to Order of Gases Applied for Bump Tests and Calibrations for important information.

To enable either the **auto** or **manu** option, complete the following:

1. From the user options menu, press \( \text{ } \) or \( \text{ } \) to scroll to the **Inlet Sel** option.
2. Press \( \textcircled{sel} \) to confirm the selection and access the field (\( \textcircled{\text{a}} \) changes to \( \textcircled{\text{b}} \)).

3. Press \( \textcircled{\text{a}} \) or \( \textcircled{\text{b}} \) to toggle between the auto and manu option.

4. When the desired option displays, press \( \textcircled{sel} \) to confirm the selection and exit the field (\( \textcircled{\text{b}} \) changes back to \( \textcircled{\text{a}} \)).

5. Press \( \textcircled{\text{a}} \) or \( \textcircled{\text{b}} \) to scroll to another user option.
   Or
   Press \( \textcircled{exit} \) to return to normal operation.

Pass Code

The Pass Code option prevents unauthorized access to the user options menu. When the base station is pass code protected, \( \textcircled{\text{a}} \) displays during normal operation.

\textit{Note}

The pass code is provided separately.

To enable/disable pass code protection, complete the following:

1. From the user options menu, press \( \textcircled{\text{a}} \) or \( \textcircled{\text{b}} \) to scroll to the Pass Code option.

2. Press \( \textcircled{sel} \) to select the option and access the field (\( \textcircled{\text{b}} \) changes to \( \textcircled{\text{a}} \)).

   \[
   \begin{array}{|c|c|}
   \hline
   \text{Format MMC} & \text{Pass Code} \\
   \text{Inlet Sel: auto} & \text{sel exit} \\
   \hline
   \end{array}
   \]

   The current mode displays beside the Pass Code option.

3. Press \( \textcircled{\text{a}} \) or \( \textcircled{\text{b}} \) to toggle between the options.

4. When the desired option displays, press \( \textcircled{sel} \) to confirm the selection and deactivate the field (\( \textcircled{\text{a}} \) changes back to \( \textcircled{\text{b}} \)).

5. Press \( \textcircled{\text{a}} \) or \( \textcircled{\text{b}} \) to scroll to another user option.
   Or
   Press \( \textcircled{exit} \) to return to the normal operation.

   \[
   \begin{array}{|c|c|}
   \hline
   \text{Pass code protect enabled} & \text{Pass code protect disabled} \\
   \hline
   \end{array}
   \]
**Entering User Options When Pass Code Protected**

To access the user options menu when the base station is pass code protected, complete the following:

1. From the normal operating screen, press \( \text{menu} \) to access the user options. The enter pass code screen displays.

   ![Please enter pass code: 000](image)

   The cursor displays below the first value.

2. Press \( \text{A} \) or \( \text{V} \) to scroll to the first number of the pass code.

   When the correct value displays, press \( \text{sel} \) to enter the first value. The cursor automatically moves to the next value.

3. Repeat step #2 for the remaining values.

4. Press \( \text{OK} \). If the correct pass code is entered, the user options menu displays.

   **Incorrect Pass Code Entered:** If an incorrect pass code is entered, the base station automatically returns to normal operation.

   ![08/22/05 14:33](image)  
   ![MicroDock II menu log off](image)

   Repeat steps #1-4 to access the user options menu to try again.

---

**Language**

The base station provides five language options and can display all text on the LCD in the following languages:

- English
- French
- German
- Portuguese
- Spanish

![Language:Eng](image)

To select a different language, complete the following:

1. From the user options menu, press \( \text{A} \) or \( \text{V} \) to scroll to the **Language** option.

   **Note**

   *The base station is shipped with language defined as English (Eng).*

2. Press \( \text{sel} \) to confirm the selection and activate the field (\( \text{a} \) changes to \( \text{b} \)).

   ![Language*Eng](image)
3. Press \( \textcircled{1} \) [ or \( \textcircled{2} \) up] to scroll to the different language options. The available options are
   - Eng (English),
   - Fran (French),
   - Deut (German),
   - Port (Portuguese), and
   - espa (Spanish).

4. When the desired language displays, press \( \textcircled{3} \) sel to confirm the selection and exit the field (\( \textcircled{1} \) changes back to \( \textcircled{2} \)).
   The LCD now displays all of the text in the selected language.

5. Press \( \textcircled{1} \) [ or \( \textcircled{2} \) down] to scroll to another user option
   Or
   Press \( \textcircled{1} \) exit to return to normal operation.
   
   Note
   
   exit now displays in the selected language.

---

### Results History

The results history displays the results of the last ten bump tests or calibrations.

The newest results display first. The following test errors can occur:

- Unit removed
- MMC error
- IR error

Note

Deactivating the base station erases the results history log.

To view the results history log, complete the following:

1. From the normal operating screen, press \( \textcircled{1} \) log.

   ![Results History Log Example]

   The most recent history log (1) displays.

2. To access the next log, press \( \textcircled{2} \) down. Continue to press \( \textcircled{2} \) down to view the remaining logs.

3. Press \( \textcircled{3} \) OK to return to normal operation.
Reconfiguring the Detector (not applicable to the GasAlertClip Extreme)

Fleet Manager II can reconfigure the following detectors with the base station:

- GasAlert Extreme
- GasAlertMicro
- GasAlertMicro 5/PID/IR
- GasAlertMicroClip /GasAlertMicroClip XT
- GasAlertMax XT / GasAlertMax XT II
- GasAlertQuattro

The detector can be reconfigured prior to performing a bump test or calibration.

To reconfigure a detector, complete the following:

1. Activate the base station. Ensure it is in normal operation.
2. Ensure that a correctly formatted MMC/SD card is inserted in the base station. Refer to Inserting/Replacing a MMC/SD Card.
3. Connect the USB cable to the computer and to the USB port on the base station.
4. From the computer, open Fleet Manager II.
5. Login to the Administration functions.
6. Under the Devices tab, click Configure Devices.
7. The Load Configuration File dialog box displays.

Select one of the following options:

- Load existing configuration file from a MicroDock
- Load existing configuration file from hard drive
- Load default configuration file

8. The Device Configuration dialog box displays.
9. Select which device to configure by clicking its tab.
10. Configure the device.

Ensure the Updatable checkbox is checked.
11. Select a program option to reprogram the detector. Each detector has different reprogram options. Refer to Configuring Detectors in the Fleet Manager II Operator’s Manual.
12. When the configuration is complete, click **Save**. The Save Configuration dialog box displays.

![Save Configuration dialog box]

13. Select **Save to MicroDock(s)**

The Save to MicroDock(s) dialog box displays.

![Save to MicroDock(s) dialog box]

14. Select a MicroDock II to save to and click **OK**.

15. A dialog box displays the message **Successfully saved MicroDock Configuration File**. Click **OK**.

![Successfully saved MicroDock Configuration File]

The detector configuration will be updated when the detector is inserted into the docking module, and a bump test or calibration is initiated.

16. Activate the detector and wait until it is in normal operation.

17. Insert the detector into the detector bay.

18. To reconfigure the detector, from the base station press ○ BUMP CHECK or ○ CALIBRATION.

If **Reprogram with user's consent** was selected under Program options, **Reconfigure detector?** displays on the base station LCD.

![Reconfigure detector?]

Press ○ **Yes** to reconfigure the detector and proceed to the bump test or calibration.

Press ○ **No** to bypass reconfiguration and proceed to the bump test or calibration.

19. When the base station is reconfiguring the detector, the following screen displays on the base station LCD.

![Updating Docking Module Configuration]
20. **Successful Reconfiguring**: If reconfiguration is successful, the following screen displays.

```
Bay 1
Reconfiguring
Detector...
```

**Unsuccessful Reconfiguration**: If reconfiguration is not successful, the following screen displays.

```
Bay 1
IR Interruption
Test Aborted
ok
```

Press ok. The LCD then returns to normal operation.

**Resolving IR Errors**: Refer to the following solutions. If the following solutions do not resolve the IR error, refer to **Troubleshooting**.

- Check the lighting conditions. Infrared or intense light (sunlight or halogen) can cause IR disruptions.
- Remove and reposition the detector in the docking module.
- Communication between the detector and base station may have been temporarily disrupted. Complete the procedures again.

---

**Gas Conflicts**

When performing a bump test or calibration, gas must be applied in a specific order to prevent gas conflicts that can damage the detector’s sensor(s).

*Note*

Ensure that the gas inlets are configured correctly. Refer to **Inlet Select**.

The gas conflicts screen automatically displays if a gas conflict occurs when a bump check or calibration is initiated.

There are two types of gas conflicts:

- **Conflicts**: More than one inlet is configured for a specific gas type.
  - **Example**: Inlet 2 is configured for SO\textsubscript{2} and inlet 3 is configured for the 3-gas SO\textsubscript{2} mix.

- **Not Found**: The base station is unable to locate the required gas type for a specific sensor on the detector.

The base station displays additional information regarding the

- number of gas conflicts,
- number of gases not found,
- docking module (e.g., **Bay 1**),
- detector gas type(s),
- inlet, and
- inlet gas type(s).
If a gas conflict is detected by the base station, the gas conflicts screen automatically displays.

Refer to the following sections, Conflicts and Not Found. Before proceeding to resolve gas conflicts, refer to the following section Abort Option.

Abort Option

The Abort option is located in the gas conflicts screen. Selecting Abort exits the gas conflict function and the base station returns to normal operation. A bump test or calibration will not be performed.

Proceed to the user options menu and select the Inlet Setup option.

To abort a gas conflict, complete the following:

1. From the gas conflicts screen, press more.

2. The conflicts/not found screen displays.

3. Press or to scroll to the Abort Test option.

4. When displays beside Abort Test, press sel or press OK. The base station automatically exits the gas conflict and returns to the normal operation.

Conflicts

If a conflict occurs, it must be resolved to continue the bump test or calibration. The user may select the gas inlet or accept the gas inlet suggested by the base station.

Press cancel to exit the gas conflict screen and return to normal operation. A bump test or calibration will not be performed.
Base Station Selects the Gas Inlet

To resolve a conflict automatically, complete the following steps.

1. Press more in the gas conflicts screen to access the gas type/inlet screen to view which gas is configured for more than one inlet.

   The gases display.

   * displays on the row of the gas in conflict and indicates the inlet the station has selected

2. Press OK to accept the inlet that is selected and automatically resume the bump test or calibration.

User Selects Gas Inlet

1. Press more in the gas conflicts screen to access the gas type/inlet screen to view which gas is configured for more than one inlet.

   The gases display.

   * displays on the row of the gas in conflict and indicates the inlet the station has selected

Note

If sel is not pressed within 30 seconds, the base station automatically defaults to the inlet it has selected.
2. Press \( \textcircled{C} \) or \( \textcircled{V} \) to move \( \rightarrow \) to the gas that is in conflict.

3. Press \( \textcircled{C} \) sel to access the inlet field. \( \times \) automatically displays on the left side of the inlet.

4. Press \( \textcircled{C} \) or \( \textcircled{V} \) to scroll to the desired inlet (1-5).

5. When the required inlet value displays, press \( \textcircled{C} \) sel to confirm the selection and exit the field. \( \times \) no longer displays to the right of the inlet, indicating the conflict has been resolved.

   **Note**
   
   If \( \textcircled{C} \) sel is not pressed within 30 seconds, the base station automatically defaults to the inlet it has selected.

**Unsuccessful Conflict Resolution:** If the conflict is not resolved by selecting a different inlet, refer to the following:
- Ensure that the selected inlet is correct.
- Ensure the gas cylinder that is attached to the selected inlet is correct.
- Press \( \textcircled{C} \) ok to accept the base station’s default selection.

**Not Found**

If a value of 1 or more displays before Not Found, the base station is unable to locate the required gas type for a specific sensor on the detector.

Press \( \textcircled{C} \) cancel to exit the gas conflict screen and return to normal operation. A bump test or calibration will not be performed.

To define the gas inlets, complete the following.

1. Press \( \textcircled{C} \) more in the gas conflicts screen to access the gas type/inlet screen to view which gas type(s) cannot be found.
The gases display.

* displays on the row of the gas not found and indicates the inlet the station has selected

\* displays on the far right side of the gas that cannot be found.

The base station automatically defaults to the Purge inlet.

2. Press \( \text{OK} \) to accept the default Purge inlet.

Or

Press \( \text{sel} \) to select a different inlet.

Note

For gases not found: If \( \text{sel} \) is not pressed within 30 seconds, the base station automatically defaults to the Purge inlet.

3. If required, repeat steps #1-2 for any additional gases not found and confirm the following:

- Ensure that the selected inlet is correct.
- Ensure that the gas cylinder attached to the selected inlet is correct.
- Press \( \text{OK} \) to accept the base station’s default selection.

---

## Accessing the MMC/SD Card During a Test

If an attempt is made to access the MMC/SD card on the base station from a PC while a bump test or calibration is being performed, the following screen displays.

**Note**

BW recommends that bump tests and calibrations be completed before accessing test results from the PC.
Order of Gases Applied for Bump Tests and Calibrations

⚠️ Warning
It is extremely important that gases are applied in the order that is specified in this manual.

Failure to adhere to the rules in Table 19, and Table 20, of this manual will result in incorrect sensor readings and possible personal injury and/or property damage.

Note

Manual application of gas types is available for the GasAlertMicro 5/PID/IR detectors only.

To manually apply gases for bump tests and calibrations, complete the following:

1. Review Table 19, and Table 20.

2. Determine which gases will be applied.

3. Using Table 19, locate the first gas type (sensor) to be bump tested or calibrated on the top row.

4. Within the far left column, locate the next gas type (sensor) to be bumped or calibrated.

    The square where the column and row intersect will indicate which gas should be applied first and a rule number (if applicable).

5. Using Table 20, locate the corresponding rule number. Ensure that the desired order to apply gases corresponds to the gas application rules.

6. Continue to reference Table 19, and Table 20, to ensure the gases are applied in the correct order.

7. When the correct order is determined, proceed to the Bump Test or Calibration section.
## Table 19. Gas Type Application Table

<table>
<thead>
<tr>
<th>Gases</th>
<th>H₂S</th>
<th>CO</th>
<th>Cl₂ (Bump only)</th>
<th>NH₃</th>
<th>HCN</th>
<th>NO₂</th>
<th>COSH (H₂S/CO)</th>
<th>SO₂</th>
<th>PH₃</th>
<th>PID</th>
</tr>
</thead>
<tbody>
<tr>
<td>H₂S</td>
<td></td>
<td></td>
<td>Cl₂</td>
<td>NH₃</td>
<td>HCN</td>
<td>NO₂</td>
<td>quad gas - one step calibration</td>
<td>SO₂</td>
<td>PH₃</td>
<td>H₂S</td>
</tr>
<tr>
<td>CO</td>
<td></td>
<td></td>
<td>Cl₂</td>
<td>NH₃</td>
<td>HCN</td>
<td>NO₂</td>
<td>quad gas - one step calibration</td>
<td>SO₂</td>
<td>PH₃</td>
<td>CO</td>
</tr>
<tr>
<td>Cl₂</td>
<td></td>
<td></td>
<td>NH₃</td>
<td>HCN</td>
<td>NO₂</td>
<td>Cl₂</td>
<td>Cl₂</td>
<td>Cl₂</td>
<td>Cl₂</td>
<td>Cl₂</td>
</tr>
<tr>
<td></td>
<td>Bump only</td>
<td></td>
<td>NH₃</td>
<td>HCN</td>
<td>NO₂</td>
<td>Cl₂</td>
<td>Cl₂</td>
<td>Cl₂</td>
<td>Cl₂</td>
<td>Cl₂</td>
</tr>
<tr>
<td>NH₃</td>
<td></td>
<td></td>
<td>HCN</td>
<td>NO₂</td>
<td>NH₃</td>
<td>Rule 9</td>
<td>NH₃</td>
<td>NH₃</td>
<td>NH₃</td>
<td>NH₃</td>
</tr>
<tr>
<td>HCN</td>
<td></td>
<td></td>
<td>HCN</td>
<td>NO₂</td>
<td>NH₃</td>
<td>Rule 9</td>
<td>NH₃</td>
<td>NH₃</td>
<td>NH₃</td>
<td>NH₃</td>
</tr>
<tr>
<td>NO₂</td>
<td></td>
<td></td>
<td>NO₂</td>
<td>NH₃</td>
<td>Rule 6</td>
<td></td>
<td>NO₂</td>
<td>NO₂</td>
<td>NO₂</td>
<td>NO₂</td>
</tr>
<tr>
<td>COSH</td>
<td>H₂S/CO</td>
<td></td>
<td>NO₂</td>
<td>Cl₂</td>
<td>Rule 6</td>
<td></td>
<td>SO₂</td>
<td>SO₂</td>
<td>PH₃</td>
<td>COSH</td>
</tr>
<tr>
<td>SO₂</td>
<td></td>
<td></td>
<td>NO₂</td>
<td>Cl₂</td>
<td>Rule 6</td>
<td></td>
<td>SO₂</td>
<td>SO₂</td>
<td>PH₃</td>
<td>SO₂</td>
</tr>
<tr>
<td>PH₃</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PH₃</td>
<td>PH₃</td>
</tr>
<tr>
<td>PID</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PID</td>
</tr>
</tbody>
</table>
# Table 20. Gas Application Rules

<table>
<thead>
<tr>
<th>Rule #</th>
<th>Gas Type</th>
<th>Apply</th>
<th>Exception(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PH₃</td>
<td>First</td>
<td>Two exceptions: NO₂ and O₃</td>
</tr>
<tr>
<td>2</td>
<td>HCN</td>
<td>First</td>
<td>Three exceptions: PH₃ and ClO₂</td>
</tr>
<tr>
<td>3</td>
<td>NO₂</td>
<td>First</td>
<td>Three exceptions: HCN</td>
</tr>
<tr>
<td>4</td>
<td>H₂S</td>
<td>Last</td>
<td>One exception: PID</td>
</tr>
<tr>
<td>5</td>
<td>CO</td>
<td>Last</td>
<td>One exception: PID</td>
</tr>
<tr>
<td>6</td>
<td>COSH (H₂S/CO)</td>
<td>Last</td>
<td>One exception: PID</td>
</tr>
<tr>
<td>7</td>
<td>PID</td>
<td>Last</td>
<td>No exceptions</td>
</tr>
<tr>
<td>8</td>
<td>Toxic gas</td>
<td></td>
<td>Both toxic sensors are cross sensitive to each other – wait 5 minutes (minimum) between calibrations before verifying sensors.</td>
</tr>
<tr>
<td>9</td>
<td>2nd Toxic gas</td>
<td></td>
<td>Wait 5 minutes (minimum) after the second toxic gas is applied before verifying calibration. Verify calibration: Apply the same test gas from a different cylinder to ensure the calibration is successful.</td>
</tr>
<tr>
<td>10</td>
<td>Cross gas</td>
<td></td>
<td>Must perform individual calibrations to avoid incorrect calibration from cross gas</td>
</tr>
<tr>
<td>11</td>
<td>H₂S/PH₃</td>
<td></td>
<td>H₂S contaminates PH₃ – calibrate and verify PH₃ sensor prior to applying any quad gas</td>
</tr>
</tbody>
</table>
**Bump Test**

A bump test is performed to confirm that the detector is responding to gas, and that the audio and visual alarms are operational.

The following detectors transfer their event logs to the base station MMC during a bump test:

- GasAlertClip Extreme
- GasAlert Extreme
- GasAlertMicroClip / GasAlertMicroClip XT
- GasAlertMax XT / GasAlertMax XT II
- GasAlertQuattro

⚠️ **Caution**

Ensure the detector is not in a low battery state prior to performing a bump test.

*Note*

The base station cannot perform a bump test for O₃ and ClO₂ sensors.

*If the GasAlertMicro, GasAlertMicro 5/PID/IR, GasAlertMicroClip / GasAlertMicroClip XT, GasAlertMax XT / GasAlertMax XT II, or GasAlertQuattro will be reconfigured, reconfiguration must be completed prior to performing a bump test. Refer to Reconfiguring the Detector (not applicable to the GasAlertClip Extreme).*

To perform a bump test, complete the following:

1. Ensure the MMC/SD card is inserted if datalogging is required. If the MMC/SD card is not inserted, ! displays on the LCD when the base station attempts to write results to the MMC/SD card. If required, refer to Inserting/Replacing a MMC/SD Card.
2. Activate the detector and wait until it is in normal operation. Insert it into the docking module.
3. Activate the base station and wait until it is in normal operation.
4. From the docking module, press BUMP CHECK. The RUN LED lights yellow.

*If a bump test is initiated while in the user menu:* Bump tests are initiated after exiting the user options menu.

When the base station enters normal operation, the base station automatically begins the bump test.

*If more than one docking module is queued:* If more than one docking module is queued for a bump test, the first docking module queued begins the bump test.

The RUN LED flashes yellow on the remaining docking modules that are queued for a bump test. When the first module is complete, the next module in the queue begins the bump test.
5. Depending upon the type of detector, the option to reconfigure is provided.

If the detector was reconfigured without user’s consent, the following screen displays.

![Bay 1 Updating docking module confis.]

If the detector was reconfigured with user’s consent the following screen displays.

![Bay 1 Reconfigure detector? Yes No]

To reconfigure the detector, press Yes. The MMC/SD card then transfers the new configuration data to the detector. If required, refer to Reconfiguring the Detector (not applicable to the GasAlertClip Extreme).

Or

Press No to continue with the bump test.

Note

If a selection is not made within 15 seconds, the base station automatically defaults to the No selection and proceeds with the bump test.

6. The base station begins the bump test and displays the
   • docking module number,
   • test being performed,
   • detector type, and
   • detector serial number.

![Bay 1 Bump Checking GasAlertMicro 4577587]

Note

The serial number of the GasAlertClip Extreme does not display on the base station when performing a bump test.

The GasAlertMicro 5/PID/IR beeps and flashes twice to test the sensors when the bump check begins.
7. If there is a gas conflict or a selected gas cannot be found, the gas conflicts screen displays. Gas conflicts must be resolved to continue the bump test. Refer to Gas Conflicts.

If there are no gas conflicts, the base station then applies the gas. If more than one gas is being applied, the base station performs a purge between each gas. Depending upon the gas type, the purge time(s) will vary.

⚠️ Important

If the Automatic Datalog Download (GasAlertMicroClip / GasAlertMicroClip XT, GasAlertMax XT / GasAlertMax XT II, and GasAlertQuattro only) is enabled in Fleet Manager II, data transfer automatically begins during the purge. Do not remove the detector until the DATA TRANSFER PASS LED lights, otherwise the transfer will fail.

8. After the bump test is complete, the base station displays the results of the bump test and performs a final purge to clear any remaining gas.

The countdown of seconds remaining displays beside **Purge**.

**Note**

After a bump check is performed, the GasAlertMicro, GasAlert-Micro 5/PID/IR, GasAlertMicroClip / GasAlertMicroClip XT, GasAlertMax XT / GasAlertMax XT II, and GasAlertQuattro deactivate in 5 minutes if no activity is detected.

For more information, refer to Automatic Datalog Download.
MicroDock II
User Manual

Bump Test Results

After the bump test is complete, the base station displays the results of the test.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>✓</td>
<td>Pass</td>
</tr>
<tr>
<td>✗</td>
<td>Fail</td>
</tr>
<tr>
<td>H₂S</td>
<td>Gas type not detected (H₂S is used as an example, this applies to all gases)</td>
</tr>
<tr>
<td>—</td>
<td>Sensor is disabled</td>
</tr>
</tbody>
</table>

**Bump Pass**

![Bump Pass Image]

✓ indicates that the detector passed the bump tests. The detector is now ready for use. Press OK to return to normal operation.

**Bump Fail**

![Bump Fail Image]

If the detector failed a bump test, ✗ displays beside the applicable gas.

**Example:** H₂S ✗.

If the detector fails an audible or visual test, ✗ displays beside the applicable test (AUD or VIS). For information regarding solutions, refer to Troubleshooting.

**Note**

If a gas type fails, calibrate the detector prior to use.

Confirm that the gas concentration exceeds the low alarm set-point of the detector being tested (applicable to GasAlertClip Extreme, GasAlert Extreme, and GasAlertMicro only).

Confirm the inlets are setup correctly.
Incorrect Inlet Setup

If an inlet is not setup correctly, a hyphen (--) displays beside the gas type.

Example: SO₂, CO, LEL, and O₂ gases were not detected.

If a test gas fails, verify that the

- gas cylinder is not empty,
- connections are attached correctly,
- inlets are setup correctly, and
- gas concentration exceeds the low alarm setpoint (applicable to GasAlertClip Extreme, GasAlert Extreme, and GasAlertMicro only).

Sensor Disabled

⚠️ Warning

To prevent personal injury and/or property damage, enable or replace the sensor immediately. Refer to the corresponding detector user manual or technical reference guide for sensor replacement procedures.

If a sensor is disabled, results from the sensor do not display on the base station LCD. -- displays where the gas type typically displays on the LCD.

Note

If a sensor is disabled, it is not recorded in the results log.
Calibration

Guidelines

⚠️ Caution

If adjustments are made to the real-time clock, the calibration due date will be invalid for the
• GasAlert Extreme,
• GasAlertMicro,
• GasAlertMicro 5/PID/IR,
• GasAlertMicroClip / GasAlertMicroClip XT,
• GasAlertMax XT / GasAlertMax XT II, and
• GasAlertQuattro detectors.

Recalibrate the detector immediately.

When calibrating the sensors, adhere to the following guidelines:

• Recommended gas mixture:
  O₂: clean air, 18% vol.
  CO: (low H₂ sensitivity): 50 to 500 ppm balance N₂
  CO: 50 to 500 ppm balance N₂
  H₂S (high range): 10 to 100 ppm balance N₂
  H₂S (low methanol): 10 to 100 ppm balance N₂
  H₂S: 10 to 100 ppm balance N₂
  PH₃: 1 to 5 ppm balance N₂
  SO₂: 10 to 50 ppm balance N₂
  NH₃: 20 to 100 ppm balance N₂
  NH₃: (high range) 20 to 100 ppm balance N₂
  NO₂: 5 to 50 ppm balance N₂
  HCN: 5 to 20 ppm balance N₂
  ETO: 5 to 50 ppm balance N₂
  NO: 10 to 250 ppm balance N₂
  Cl₂: 3 to 25 ppm (for bump checks only)
  VOC: 100 ppm isobutylene
  CO₂: 5000 ppm balance air or 0-5.0 % v/v CO₂
  LEL: 10 to 100% LEL or 0.5 to 5% by vol. methane balance air

Note

The base station cannot calibrate Cl₂, O₃, and ClO₂ sensors.

• Calibrate only in a safe area and in a fresh air environment. Do not operate the base station in a hazardous area. Failure to adhere to this guideline can result in possible personal injury and/or property damage.
• BW recommends using premium grade calibration gases and cylinders that are certified to National Standards. The calibration gases must meet the accuracy of the detector.
• Do not use a gas cylinder beyond its expiration date.
• All calibration cylinders must be used with a demand flow regulator and must meet the following maximum inlet pressure specifications:
  • Disposable cylinders 0-1000 psig/70 bar
  • Refillable cylinders 0-3000 psig/207 bar
• Do not calibrate the detector during or immediately after charging is complete.
• For ETO sensors (before each work shift) allow the detector to fully stabilize in the temperature that it will be operated in, and then zero the detector.
• It is necessary to periodically re-zero the ETO sensor.
• Calibrate the sensor if the ambient gas readings vary during startup.
• Calibrate a new sensor before use. Allow the sensor to stabilize before starting calibration:
  • Used sensor: 60 seconds
  • New sensor: 5 minutes.
• Before calibrating a new NO or ETO sensor, allow the sensor to stabilize for 2 hours in a safe area that is free of hazardous gas.
• Calibrate the sensors at least once every 180 days, depending upon use and sensor exposure to poisons and contaminants. For HCN sensors, calibrate at least once every 90 days.
• Calibrate the sensor before changing the alarm setpoints.
• When calibrating multiple times, wait 10 minutes between calibrations to allow the sensor to stabilize.
• If a certified calibration is required, contact BW Technologies by Honeywell.

**Calibration Procedure (All models excluding the GasAlertClip Extreme)**

A calibration adjusts the sensitivity level of a sensor to ensure an accurate response to gas.

⚠️ Caution

Ensure the detector is not in a low battery state prior to performing a calibration.


The following detectors transfer event logs to the base station MMC during a calibration:

• GasAlert Extreme
• GasAlertMicroClip / GasAlertMicroClip XT
• GasAlertMax XT / GasAlertMax XT II
• GasAlertQuattro

To perform calibration, complete the following:

1. Ensure the MMC/SD card is inserted if datalogging is required.
   
   If the MMC/SD card is not inserted, ![ ] displays on the LCD when the base station attempts to log the results of the calibration. If required, refer to Inserting/Replacing a MMC/SD Card.

2. Activate the detector and wait until it is in normal operation.
    Insert it into the docking module.

3. Activate the base station and wait until it is in normal operation.

4. Press ![ ] CALIBRATION on the corresponding docking module.

   **Note**

   For calibration procedures for the GasAlertMicro 5 IR with CO₂ sensor, refer to GasAlertMicro 5 IR with CO₂ Sensor.

   If calibration is initiated while in the user options menu: Calibrations are initiated after exiting the user options menu.

   **If more than one docking module is queued:** The first module queued begins the calibration.

   The RUN LED flashes yellow on the remaining docking modules that are queued for calibration. When the first docking module is complete, the next module in the queue begins calibration.
The base station begins the calibration and displays the:

- docking module,
- test being performed,
- detector type, and
- detector serial number.

| Bay 1 | Calibration | GasAlertMicro | 2346668 |

**Note**


**⚠️ Important**

If the Automatic Datalog Download (GasAlertMicroClip / GasAlertMicroClip XT, GasAlertMax XT / GasAlertMax XT II, GasAlertQuattro only) is enabled in Fleet Manager II, data transfer automatically begins during the purge. Do not remove the detector until the DATA TRANSFER PASS LED lights, otherwise the transfer will fail.

5. If there is a gas conflict or a selected gas cannot be found, refer to **Gas Conflicts**.

6. If there are no gas conflicts, the base station then applies the gas.

   ![Applying Gas...](image)

   If more than one gas is being applied, the base station performs a purge between each gas. Depending upon the gas type, the purge time(s) will vary.

   **Note**

   If **Automatic Datalog Download** is enabled in Fleet Manager II, GasAlertMicroClip / GasAlertMicroClip XT, GasAlertMax XT / GasAlertMax XT II, and GasAlertQuattro automatically deactivate after the transfer is complete. To bypass the shutdown, remove the detector within 15 seconds after the DATA TRANSFER PASS LED lights.

7. Refer to **Calibration Results**.

**GasAlertMicro 5 IR with CO₂ Sensor**

**Note**

If calibrating a GasAlertMicro 5 IR detector, the base station automatically zeroes and then calibrates the CO₂ sensor first.

1. The base station zeroes the CO₂ sensor. The CO₂ sensor can only be zeroed using nitrogen (N₂).

   Ensure N₂ has been configured to an inlet. If required, refer to **Inlet Setup**.
2. The base station applies the gas.

3. The base station purges the N₂ before applying the CO₂ gas.

4. The base station then applies the gas to the CO₂ sensor.

5. The base station begins calibrating the remaining sensors. For more information, refer to Automatic Datalog Download.

6. After calibration is complete, the base station displays the results and performs a final purge to clear any remaining gas.

The countdown of seconds remaining displays beside Purge.

Note

After calibration, the GasAlertMicro 5/PID/IR automatically deactivates. To bypass the automatic shutdown, remove the detector within 15 seconds after the final purge begins.

Calibration Results

After the calibration is complete, the base station LCD displays the results.

<table>
<thead>
<tr>
<th></th>
<th>Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>×</td>
<td>Fail</td>
</tr>
</tbody>
</table>

H₂S— No gas found (H₂S is used as an example, this applies to all gases)

Sensor is disabled

Calibration Pass

The ✓ and Pass indicates that the calibration has passed. The detector is now ready for use. Press ✓ OK to return to normal operation.
**Calibration Fail**

If calibration fails, \( \times \) displays beside the applicable gas.

**Example:** H₂S \( \times \)

**Incorrect Inlet Setup**

If an inlet is not setup correctly during a calibration, the base station displays **Fail** and a hyphen (-) beside the gas type.

**Example:** H₂S, CO, and LEL gases were not detected.

If a test gas fails, verify that the
- gas cylinder is not empty,
- connections are attached correctly, and
- inlets are setup correctly.

If the detector fails an audible or visual test, \( \times \) displays beside the applicable test **(AUD or VIS)**. For information regarding solutions, refer to **Troubleshooting**.

---

**Sensor Disabled**

⚠️ **Warning**

To prevent personal injury and/or property damage, enable or replace the sensor immediately. Refer to the corresponding detector user manual for sensor replacement procedures.

If a sensor is disabled, results from the sensor do not display on the base station LCD. \( \_\_\_\_\_\_\_\_ \) displays where the gas type typically displays on the LCD.

**Note**

If a sensor is disabled, it will not be recorded in the results log.
Data Transfer

(GasAlert Extreme, GasAlertMicroClip / GasAlertMicroClip XT, GasAlert-Max XT / GasAlertMax XT II, and GasAlertQuattro only)

Transferring Datalogs

The data transfer function transfers datalogs from the detector to the base station’s MMC/SD card. The data can then be imported into Fleet Manager II.

Depending upon how many logs are stored on the MMC, the data transfer may require several minutes to complete (1-2 minutes for GasAlert-MicroClip / GasAlertMicroClip XT and GasAlertMax XT / GasAlertMax XT II).

To transfer datalogs from the detector to the docking module and then to the base station MMC/SD card, complete the following:

1. Activate the detector and wait until it is in normal operation.
   Insert it into the docking module.
2. Activate the base station and wait until it is in normal operation.
3. Press DATA TRANSFER on the docking module. The yellow RUN LED flashes rapidly and the docking module transfers the datalogs to the base station.
   When the transfer process is complete, the docking module indicates the status of the transfer as PASS or FAIL.
   **Successful Transfer:** If the datalog transfer is successful, the PASS LED lights green, the RUN LED flashes yellow slowly, and the detector beeps.
   **Unsuccessful Transfer:** If the datalog transfer is unsuccessful, the FAIL LED lights red and the RUN LED flashes slowly.

If a failure occurs during the transfer of a datalog, typically some of the data transfers to the MMC/SD card. To determine if any data has been transferred, access the MMC data using Fleet Manager II. Refer to the Fleet Manager II Operator’s Manual.

If required, repeat step #3 to transfer the datalog.
4. After a successful transfer to the base station, the base station transfers the datalog to the MMC/SD card. The RUN and the PASS LEDs light on the docking module and the following screen displays on the base station LCD.

When the datalog has successfully transferred from the base station to the MMC/SD card, the following screen displays on the base station LCD.
5. On the base station, press Pass to return to the normal operating screen.

Maximum Datalog Storage Capacity
When the maximum datalog storage is reached, the base station replaces the oldest datalogs with the newest datalogs. Datalogs are not recorded in the Results History.

Automatic Datalog Download
(GasAlertMicroClip / GasAlertMicroClip XT, GasAlertMax XT / GasAlertMax XT II, and GasAlertQuattro only)
The detector can be configured to automatically transfer datalogs every time a bump test or calibration is performed.

Using the IR Link
- To configure the GasAlertMicroClip / GasAlertMicroClip XT using the IR Link and Fleet Manager II, refer to the GasAlertMicroClip User Manual or GasAlertMicroClip XT Technical.
- To configure the GasAlertMax XT / GasAlertMax XT II using the IR Link and Fleet Manager II, refer to the GasAlertMax XT II Technical Reference Guide.
- To configure the GasAlertQuattro using the IR Link and Fleet Manager II, refer to the GasAlertQuattro Technical Reference Guide.

Using the MicroDock II
To enable Automatic Datalog Download using MicroDock II and Fleet Manager II, complete the following:

1. From the PC, open Fleet Manager II.
2. Log in to the Administration functions.
3. From the Devices toolbar, click Configure Devices via MicroDock.
   The Load Configuration File dialog box displays.

4. Select an option and click OK. If selecting Load existing configuration file from a MicroDock, ensure the base station is activated and connected to the computer with a USB cable.

5. Click the desired detector tab.
7. Under program options, select an option to reprogram the detector.

   • **Reprogram with user’s consent (but do not change Date/Time):** When selected, the base station asks if the detector will be reconfigured each time a bump check or calibration is initiated. The detector’s clock is not changed to match the MicroDock II’s clock.

   • **Automatically reprogram (but do not change Date/Time):** When selected, the detector is automatically reconfigured when a bump test or calibration is initiated. The detector’s clock is not changed to match the MicroDock II’s clock.

   • **Reprogram with user’s consent (including Date/Time):** When selected, the base station asks if the detector will be reconfigured each time a bump check or calibration is initiated. The detector’s clock will be changed to match the MicroDock II’s clock.

   • **Automatically reprogram (including Date/Time):** When selected, the detector is automatically reconfigured when a bump test or calibration is initiated. The detector’s clock is changed to match the MicroDock II’s clock.

8. Ensure the base station is connected to the computer using a USB cable.

9. Click **Save** in the lower left-hand corner.

10. The Save Configuration dialog box displays.

    **Figure 24. Save Configuration Dialog Box**

11. Click the **Save to MicroDock(s)** checkbox and click **OK**.

    The Save to MicroDock(s) dialog box displays.

    **Figure 25. Save to MicroDock(s) Dialog Box**
12. Select a MicroDock II to save the configuration file and click **OK**. The following dialog box displays.

13. Click **OK**.

14. Refer to **Reconfiguring the Detector (not applicable to the GasAlertClip Extreme)** to download the new configuration to the detector.

### Base Station MMC/SD Card

#### Event Logging

Bump tests and calibrations are recorded on a MultiMediaCard (MMC) or a Secure Digital (SD) card. The MMC/SD card is located in the base station inside the battery compartment. It stores test records that are then downloaded from the base station to a PC.

The following detectors transfer event logs to the base station MMC during a bump test or calibration:

- GasAlertClip Extreme (bump test only)
- GasAlert Extreme
- GasAlertMicroClip / GasAlertMicroClip XT
- GasAlertMax XT / GasAlertMax XT II
- GasAlertQuattro
Inserting/Replacing a MMC/SD Card

The MMC/SD card is inserted in the base station inside the battery compartment. To insert or replace the MMC/SD card, refer to Figure 26. and complete the following procedures:

1. Deactivate the base station.
2. Loosen the retaining screws from the battery cover. Do not remove the screws from the battery cover.
3. Remove the battery cover and set it aside.
4. Remove the current MMC/SD card (if applicable).
5. Insert the new MMC/SD card into the memory card slot.
6. Replace the battery cover and tighten the retaining screws. Do not overtighten the screws.

To format an MMC/SD card, refer to Formatting the MMC/SD Card in the User Options Menu section.

Accessing Test Results

To access and view test results using Fleet Manager II, refer to the Fleet Manager II Operator's Manual.

Data that is saved on the MMC/SD card can be transferred to a PC. MicroDock II test results are saved in the .CSV format.

The following version of the Microsoft Windows operating system supports Fleet Manager II:

- Windows XP
- Windows Vista
- Windows 7

System requirements

Windows Vista and Windows 7 System Requirements

- 2 Ghz processor
- 100 MB of free disk space
- 2 GB of RAM

Windows XP System Requirements

- 800 MHz processor
- 100 MB of free disk space
- 512 MB of RAM

The computer must also have the following software:

- A PDF reader

Note

BW recommends that bump tests and calibrations be completed before accessing results on the PC.
Charging the Detector
(Excluding GasAlert Extreme and GasAlertClip Extreme)

⚠️ Warning
A maximum of six charging docking modules can be installed on the base station.
To charge successfully, the temperature must be between 50°F to 95°F (10°C to 35°C). Charge the battery when the detector emits a low battery alarm.

⚠️ Caution
The charger is for indoor use only.
Do not calibrate or bump the detector immediately after charging is complete.

When charging for the first time, refer to the detector’s user manual or technical reference guide.

>Note
The detector will not charge while bump tests or calibrations are being performed. If the battery is low, charge the detector for 30 minutes then begin a test. When the test is complete resume charging the battery.

Charger/Battery Pack Guidelines

- Deactivate the detector before charging.
- When charging is complete, the detector can remain in the detector bay without wear or damage to the battery.
- Charging the battery pack in temperatures above 86°F (30°C) greatly reduces the number of possible charges to the battery pack.
- When charging is complete, the battery pack may be warm.
- The battery pack requires approximately three charge cycles to achieve full charge capacity.
- The base station only charges using DC power.
- Charging more than four units simultaneously increases the total charge time.
- Up to six GasAlertMicro and GasAlertMicro 5/PID/IR detectors can charge simultaneously.
- Up to four GasAlertMicroClip / GasAlertMicroClip XT, GasAlertMax XT / GasAlertMax XT II, and GasAlertQuattro can charge simultaneously.
- When charging an extremely depleted battery, the battery requires a longer charging time.
- The detector cannot charge during bump tests or calibrations. If battery power is low, charge the detector for 30 minutes and then initiate the bump/calibration.
- When a fully charged battery is inserted into the detector bay, the charger LED lights red for 6 to 10 minutes before lighting green. This action will not wear or damage the battery.
**Charging Different Detectors Together**

Up to six charging docking modules can be attached to the base station. If charging GasAlertMicroClip / GasAlertMicroClip XT, GasAlertMax XT / GasAlertMax XT II, or GasAlertQuattro with GasAlertMicro 5/PID/IR or GasAlertMicro, refer to the following:

- If another GasAlertMicroClip / GasAlertMicroClip XT, GasAlertMax XT / GasAlertMax XT II, or GasAlertQuattro is added, the added detector will wait in queue until a GasAlertMicro 5/PID/IR or GasAlertMicro has completed charging before beginning to charge.
- If another GasAlertMicro 5/PID/IR or GasAlertMicro is added, the added detector will begin charging and one GasAlertMicroClip / GasAlertMicroClip XT, GasAlertMax XT / GasAlertMax XT II, or GasAlertQuattro will stop charging. The GasAlertMicroClip / GasAlertMicroClip XT, GasAlertMax XT / GasAlertMax XT II, or GasAlertQuattro will begin charging when a GasAlertMicro 5/PID/IR or GasAlertMicro has completed charging.

**Charging Procedure**

### Table 21. Charger Status LED

<table>
<thead>
<tr>
<th>Charger Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>Charging normally</td>
</tr>
<tr>
<td>Flashing red</td>
<td>Detector waiting in queue to charge</td>
</tr>
<tr>
<td>Green</td>
<td>Charge complete</td>
</tr>
<tr>
<td>Off</td>
<td>Charge or temperature fault</td>
</tr>
</tbody>
</table>

The battery pack for the GasAlertMicro 5/PID/IR and GasAlertQuattro can be charged separately from the detector. Refer to [Inserting the GasAlertMicro 5/PID/IR Battery Pack](#) or [Inserting the GasAlertQuattro Battery Pack](#).

To charge a detector or battery pack in a charging docking module, complete the following:

1. Connect the AC adapter of the charger to the CHARGE port on the base station and then plug the cord into the AC outlet. The CHARGE STATUS LED briefly lights red then green during the self-test. The LED then deactivates.
2. If charging the detector, deactivate the detector and insert it into the detector bay.
3. If charging the battery pack, remove the battery pack from the detector. Insert it into the detector bay bottom first.
4. The CHARGE LED then lights red.
5. Ensure the detector is inserted correctly onto the contact pins.
6. The CHARGE LED lights red.
7. Allow the battery to obtain a full charge (2 to 6 hours, depending upon detector type and number of docking modules connected to the base station).

If a docking module is in queue waiting to be charged, the CHARGE LED flashes red (all charging modules). If there is not an AC adapter plugged into the CHARGE port, the GasAlertMicroClip / GasAlertMicroClip XT and GasAlertMax XT / GasAlertMax XT II modules’ CHARGE LED flashes red.

When the docking module begins charging, the CHARGE LED stops flashing and lights solid red.
The CHARGE LED lights green when the charging process is complete. If there are other docking modules in queue waiting to charge, the docking modules will begin charging.

The CHARGE LED deactivates when the detector is removed.

### Maintenance

⚠️ **Warning**

*No user-serviceable parts inside.*

To maintain the base station in good operating condition, perform the following basic maintenance as required.

- To ensure quality product operation, maintain a log of all maintenance that is performed.
- Clean the exterior with a soft, damp cloth. Do not use solvents, soaps, or polishes.
- Confirm that the inlet filter is free of dirt and replace it if required. To order replacement parts, refer to Replacement Parts and Accessories.
- Do not immerse the base station in liquids.

### Battery Pack Storage

**GasAlertMicro and GasAlertMicro 5/PID/IR**

When storing for extended periods of time, ensure that the detector is fully charged and recharged every 30 days.

**GasAlertMicroClip / GasAlertMicroClip XT**

If the GasAlertMicroClip / GasAlertMicroClip XT will be stored for an extended period of time, ensure the detector is fully charged before storage and then recharged every 30 days. Calibration due dates may be lost if the detector is not recharged every 30 days.
**Troubleshooting**

If a problem is encountered, refer to the solutions provided in the following table. If the problem cannot be resolved, contact BW Technologies by Honeywell.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The base station does not activate.</td>
<td>There is no power connection.</td>
<td>Connect the power adapter.</td>
</tr>
<tr>
<td></td>
<td>Batteries are not inserted.</td>
<td>Insert the batteries.</td>
</tr>
<tr>
<td></td>
<td>The batteries are depleted.</td>
<td>Replace the batteries.</td>
</tr>
<tr>
<td></td>
<td>The base station is damaged or defective.</td>
<td>Contact BW Technologies by Honeywell.</td>
</tr>
<tr>
<td>The detector fails a bump test.</td>
<td>Barbed fittings are not connected correctly with the gasket.</td>
<td>Confirm connection. Refer to Adding Another Docking Module.</td>
</tr>
<tr>
<td></td>
<td>Detector alarm setpoints are set higher than the gas concentration levels of the gas cylinder.</td>
<td>Connect a gas cylinder that has a higher gas concentration level than the alarm setpoints.</td>
</tr>
<tr>
<td></td>
<td>Gas connections are not attached correctly or are blocked.</td>
<td>Confirm that all gas connections are attached correctly.</td>
</tr>
<tr>
<td></td>
<td>Gas inlets are not setup correctly.</td>
<td>Refer to Inlet Setup and Installation.</td>
</tr>
<tr>
<td></td>
<td>Gas cylinder is empty.</td>
<td>Use a new gas cylinder.</td>
</tr>
<tr>
<td></td>
<td>Detector and/or base station are damaged or defective.</td>
<td>Contact BW Technologies by Honeywell.</td>
</tr>
</tbody>
</table>
## Problem

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The oxygen sensor fails a bump test.</td>
<td>Oxygen alarm setpoints of the detector are set to the same concentration level as the gas cylinder.</td>
<td>Connect a quad-gas cylinder that has 18% O₂.</td>
</tr>
<tr>
<td></td>
<td>Ambient air (inlet 1) is blocked or the inlet filter is contaminated.</td>
<td>Remove the blockage or replace the inlet filter.</td>
</tr>
<tr>
<td></td>
<td>Zero gas cylinder is empty.</td>
<td>Use a new zero gas cylinder.</td>
</tr>
<tr>
<td>The detector fails a calibration.</td>
<td>Gas cylinder is empty.</td>
<td>Use a new gas cylinder.</td>
</tr>
<tr>
<td></td>
<td>Barbed fittings are not connected correctly to the gasket.</td>
<td>Confirm connection. Refer to <a href="#">Adding Another Docking Module</a>.</td>
</tr>
<tr>
<td></td>
<td>Gas connections are not attached correctly or are blocked.</td>
<td>Confirm that all gas connections are attached correctly.</td>
</tr>
<tr>
<td></td>
<td>Detector and/or base station are damaged or defective.</td>
<td>Contact <a href="#">BW Technologies by Honeywell</a>.</td>
</tr>
<tr>
<td>Flashing battery icon <img src="#" alt="Battery Icon" />.</td>
<td>Batteries are extremely depleted.</td>
<td>Replace the batteries.</td>
</tr>
<tr>
<td>The base station is activated but does not respond to button presses.</td>
<td>Irregular power (not continuous or reliable) electrostatic discharge.</td>
<td>Deactivate the base station, wait 5 seconds, then reactivate.</td>
</tr>
<tr>
<td>There is no audible beep (GasAlertMicro and GasAlertMicro 5/PID/IR).</td>
<td>Internal damage to battery or docking module.</td>
<td>Contact <a href="#">BW Technologies by Honeywell</a>.</td>
</tr>
<tr>
<td>Problem</td>
<td>Possible Cause</td>
<td>Solution</td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>The docking module does not recognize the detector.</td>
<td>Detector is deactivated.</td>
<td>Activate the detector.</td>
</tr>
<tr>
<td></td>
<td>Detector does not have IR communication capabilities.</td>
<td>Refer to the label located on the back of the detector for IR capabilities.</td>
</tr>
<tr>
<td></td>
<td>Firmware of the detector requires an update.</td>
<td>Contact <a href="https://www.bwtech.byhoneywell.com">BW Technologies by Honeywell</a></td>
</tr>
<tr>
<td></td>
<td>Base station is currently attempting to establish communication with the detector.</td>
<td>Wait approximately 30 seconds.</td>
</tr>
<tr>
<td></td>
<td>Docking module is not initialized to the correct number.</td>
<td>Re-initialize the docking module. Refer to <a href="https://www.bwtech.byhoneywell.com">Adding Another Docking Module</a></td>
</tr>
<tr>
<td></td>
<td>Detector and/or base station are damaged or defective.</td>
<td>Contact <a href="https://www.bwtech.byhoneywell.com">BW Technologies by Honeywell</a></td>
</tr>
<tr>
<td>There is an audible beep but no charge (GasAlertMicro and GasAlertMicro 5/PID/IR docking modules).</td>
<td>Battery is above or below the operating temperature 50°F–95°F (10°C–35°C).</td>
<td>Allow the battery pack time to adjust to the specified operating temperature (approximately 60 minutes).</td>
</tr>
<tr>
<td></td>
<td>Severely depleted battery.</td>
<td>Charge (2–4 hours) or replace old battery with new battery. If problem persists, contact <a href="https://www.bwtech.byhoneywell.com">BW Technologies by Honeywell</a></td>
</tr>
<tr>
<td></td>
<td>Damaged or defective battery pack.</td>
<td>Contact <a href="https://www.bwtech.byhoneywell.com">BW Technologies by Honeywell</a></td>
</tr>
<tr>
<td>Problem</td>
<td>Possible Cause</td>
<td>Solution</td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>The charger LED does not light when the detector or battery pack is</td>
<td>Detector or battery pack is not inserted into the detector bay correctly.</td>
<td>Firmly insert the detector into the detector docking bay.</td>
</tr>
<tr>
<td>inserted (for GasAlertMicro, GasAlertMicro 5/PID/IR,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GasAlertMicroClip / GasAlertMicroClip XT and GasAlertQuattro docking</td>
<td>The battery pack is above or below the operating temperature 50°F–95°F</td>
<td>Allow the battery pack time to adjust to the specified operating</td>
</tr>
<tr>
<td>modules). Charging the battery pack separately from the detector is</td>
<td>(10°C–35°C).</td>
<td>temperature (approximately 60 minutes).</td>
</tr>
<tr>
<td>only applicable to GasAlertMicro 5/PID/IR and GasAlertQuattro</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Detector or battery pack is not inserted into the detector bay</td>
<td>The battery pack is severely depleted.</td>
<td>Allow the detector to charge (2–4 hours).</td>
</tr>
<tr>
<td>correctly.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The battery pack is severely depleted.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The charger LED on the GasAlertMax XT / GasAlertMax XT II docking</td>
<td>Detector or battery pack is not inserted into the detector bay correctly.</td>
<td>Firmly insert the detector or battery pack into the detector docking</td>
</tr>
<tr>
<td>module lights solid for 15 minutes and then deactivates. This behavior</td>
<td></td>
<td>bay.</td>
</tr>
<tr>
<td>may also occur while waiting in queue to charge.</td>
<td>The battery pack is severely depleted</td>
<td>Remove and insert the detector or battery pack several times to restore</td>
</tr>
<tr>
<td></td>
<td></td>
<td>charge capability.</td>
</tr>
<tr>
<td>Problem</td>
<td>Possible Cause</td>
<td>Solution</td>
</tr>
<tr>
<td>---------</td>
<td>---------------</td>
<td>----------</td>
</tr>
</tbody>
</table>
| No drive letter is created for the MicroDock II (Windows XP) on the PC. | Windows XP is not correctly mapping the drive. | Ensure Windows XP has assigned a drive letter to the MicroDock II.  
Solution:  
1) Right-click **My Computer** and then click **Manage**.  
2) Under **Computer Management (Local)** click **Disk Management**.  
3) In the list of drives in the right pane, right-click the new drive and then click **Change Drive Letter and Path(s)**.  
4) Click **Change** and in the drop-down box, select a drive letter for the new drive (cannot be assigned to a mapped network drive).  
5) Click **OK** and then click **OK** again. |
<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
</table>
| Autoplay displays after every bump test and calibration. | Autoplay is enabled | Disable Autoplay.  
Windows XP:  
1) Click **Start Menu**, then **Run**.  
2) Enter gpedit.msc  
3) The Group Policy window displays.  
4) Click Administrative Templates and then System.  
5) In the right-hand pane, double-click on **Turn off Autoplay**.  
6) The Turn off Autoplay Properties dialog box displays.  
7) Select **Enabled**.  
8) From the Turn off Autoplay on drop down men, select All drives. Then click **OK**.  
Windows Vista:  
1) Open Control Panel.  
2) Under Hardware and Sound, click **Play CDs or other media automatically**.  
3) Then remove the check from the **Use AutoPlay for all media and devices** checkbox. |
| Problem transferring to the MMC/SD card during a calibration or bump test. | | Repeat the test.  
Ensure the MMC/SD card is inserted. |
<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMC Size Is Not Supported</td>
<td>Size of MMC is not supported.</td>
<td>Insert a 128 MB Delkin MMC.</td>
</tr>
<tr>
<td>Error Formatting MMC Please Try Another Card</td>
<td>MMC is not correctly formatted.</td>
<td>Refer to <a href="#">Formatting the MMC/SD Card</a>. Replace with a new MMC/SD card.</td>
</tr>
<tr>
<td>MMC Is Full</td>
<td>Log file has exceeded maximum size.</td>
<td>Refer to <a href="#">Formatting the MMC/SD Card</a>. Replace with a new MMC/SD card.</td>
</tr>
<tr>
<td>Bay 1 IR Communication Not Working</td>
<td>IR not working when detector is inserted into the module.</td>
<td>Check for dirt on the IR port. Confirm the detector is activated. Charge the detector battery if too low.</td>
</tr>
<tr>
<td>Bay 1 Detector Not Supported</td>
<td>Non-datalogger detector is inserted in the docking module.</td>
<td>Insert only datalogger models.</td>
</tr>
<tr>
<td>Bay 1 Err. CO2 1?</td>
<td>Software exception.</td>
<td>If an error code displays on the LCD, record it and contact <a href="#">BW Technologies by Honeywell</a>.</td>
</tr>
</tbody>
</table>
Replacement Parts and Accessories

⚠️ Warning

To avoid personal injury or damage to the base station, use only the specified replacement parts.

To order parts or accessories, contact BW Technologies by Honeywell.

### Table 23. Replacement Parts and Accessories

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GasAlertMicro Docking Module</strong></td>
<td></td>
</tr>
<tr>
<td>DOCK2-0-1A-00-N</td>
<td>Non-charging</td>
</tr>
<tr>
<td>DOCK2-0-1B1C-00-N</td>
<td>Charging (power supply included)</td>
</tr>
<tr>
<td><strong>GasAlertMicro 5/PID/IR Docking Module</strong></td>
<td></td>
</tr>
<tr>
<td>DOCK2-0-1J-00-N</td>
<td>Non-charging</td>
</tr>
<tr>
<td>DOCK2-0-1C1K-00-N</td>
<td>Charging (power supply included)</td>
</tr>
<tr>
<td><strong>GasAlert Extreme Docking Module</strong></td>
<td></td>
</tr>
<tr>
<td>DOCK2-0-1D-00-N</td>
<td>With datalogging</td>
</tr>
<tr>
<td><strong>GasAlertClip Extreme Docking Module</strong></td>
<td></td>
</tr>
<tr>
<td>DOCK2-0-1E-00-N</td>
<td>H₂S (hydrogen sulfide)</td>
</tr>
<tr>
<td>DOCK2-0-1H-00-N</td>
<td>O₂ (oxygen)</td>
</tr>
<tr>
<td>DOCK2-0-1G-00-N</td>
<td>CO (carbon monoxide)</td>
</tr>
<tr>
<td>DOCK2-0-1F-00-N</td>
<td>SO₂ (sulfur dioxide)</td>
</tr>
<tr>
<td><strong>GasAlertMicroClip Docking Module</strong></td>
<td></td>
</tr>
<tr>
<td>DOCK2-0-1C1L-00-N</td>
<td>Charging (power supply included)</td>
</tr>
<tr>
<td><strong>GasAlertMicroClip XT Docking Module</strong></td>
<td></td>
</tr>
<tr>
<td>DOCK2-2-1C1P-00-G</td>
<td>Charging (power supply included)</td>
</tr>
</tbody>
</table>

### GasAlertMax XT / GasAlertMax XT II Docking Module
- DOCK2-0-1C1M-00: Charging (power supply included)

### GasAlertQuattro Docking Module
- DOCK2-0-1C1N-00-N: Charging (power supply included)

### MMC/SD Communication Devices and Accessories
- CR-MMC-USB1: MMC USB Reader (USB port) for MMC
- DOCK2-LAN1: Network USB communication device
- DOCK2-MMC: Delkin 128 MB MultiMediaCard (MMC)

### Wall Mount Adapters
- WMA-DOCK: For MicroDock II and charging modules (kit of 2)
- MK-CG2-34B: For 34 l gas cylinder (black)
- MK-CG2-58: For 58 l gas cylinder (red)

### Replacement Parts and Accessories
- DOCK2-DA-1: Diffusion adapter

### Carrying Cases
- DOCK2-CC1: Hard-sided (1 module system)
- DOCK2-CC2: Heavy duty (1 to 3 module system)

### Demand Flow Regulators
- REG-DF-1: Demand flow regulator
- REG-DF-2: For refillable cylinders CGA connector
**Specifications**

The MicroDock II is for indoor use only.

**Instrument dimensions:** 21.2 x 26.3 x 8.2 cm  
(8.3 x 10.4 x 3.2 in.) base station and one docking module  
**Weight:** 0.98 kg (2.15 lb)  
**Base system ingress protection:** IP20  
**Enclosure:** Impact resistant PC/ABS (polycarbonate)  
**Operating temperature:** +10°C to +35°C (+50°F to +95°F)  
**Humidity:** 0 to 50%  
**Altitude:** 2000 m (6561.66 ft.)  
**Storage temperature:** -10°C to 60°C (14°F to 140°F)  
**Power supply:** 6 Vdc, 1.5 A wall adapter or four C-cell batteries  
(main supply voltage fluctuations are not to exceed 10% of the nominal supply)  
**Pollution degree:** 2  
**Installation category:** I  
**Real-time clock:** Provides time and date stamp  
**Data storage:** Automatic (instrument and base station)  
128 MB Delkin MMC data storage system  
**External interface:** USB interface for PC  
**Pump:** DC motor, micro-diaphragm; 3V PCB mount  
**Flow rate:** Maximum recommended 350 ml/min.  
**Calibration gas cylinder inputs:**  
2-gas inlets (standard)  
4-gas + air inlets (maximum)  
**Automatic tests:** Functional bump test, calibration, data transfer, audible alarm, visual alarm

**Configuration recognition:** Automatic (instrument and sensor)  
**Alarm/calibration parameters:** User-defined  
**Calibration gas connections:** Built-in (base station)  
**Gas connection:** 1/8" SMC connect sub-miniature coupling  
**Solenoid:** Built-in (docking modules)  
**LED indicators:** (on each docking module)  
Yellow – Test  
Green – Pass  
Red – Fail  
**Command keys:**

<table>
<thead>
<tr>
<th>Base station</th>
<th>Menu navigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Docking module</td>
<td>One touch bump test initiation</td>
</tr>
<tr>
<td></td>
<td>One touch calibration initiation</td>
</tr>
<tr>
<td></td>
<td>(not applicable to the GasAlertClip Extreme)</td>
</tr>
<tr>
<td></td>
<td>One touch data transfer initiation</td>
</tr>
<tr>
<td></td>
<td>(GasAlert Extreme, GasAlertMicroClip / GasAlertMicroClip XT, and GasAlertMax XT / GasAlertMax XT II only)</td>
</tr>
</tbody>
</table>

**Communications method:** Infrared (two-way) between docking module and detector (not applicable to the GasAlertClip Extreme – one way communication only)  
**USB port for connection to a:**  
Personal computer (PC), or  
USB over IP HUB  
**Sensors:**  
Audio  
Optical  
**LCD:** 4 line x 16 characters, wide viewing angle, user-defined backlighting  
**Warranty:** 2 years
**Charger Specifications**

**Size:** 8.6 x 8.2 x 7.8 cm (3.4 x 3.2 x 3.1 in.)  
**Weight:** 97 g (3.4 oz)  
**Charger system ingress protection:** IP20  
**Operating temperature:** 10°C to 35°C (50°F to 95°F)  
**Humidity:** 0% to 50%  
**Altitude:** 2000 m (6561.66 ft.)  
**Power:** 6 VDC , 2.5 A  
**Charging LED:** Color-coded LED advises: charging, charge complete, and charger fault  
**Charge time:** Typically 2-6 hours  
**Pollution degree:** 2  
**Installation category:** I

This device complies with the FCC Part 15 and ICES-003 Canadian EMI requirements. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules and ICES-003 Canadian EMI requirements.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.

⚠️ **Warning**

This product is designed for installation in an indoor location only. All required National Electrical Codes and Safety Standards must be followed.

For AC main installation, a circuit breaker should be included in the building installation as a disconnect device for the equipment. The disconnect device should be installed in close proximity to the equipment and the device should be marked as a disconnecting means for the equipment.

⚠️ **Warning**

This instrument contains a lithium polymer battery. Dispose of lithium cells immediately. Do not disassemble and do not dispose of in fire. Do not mix with the solid waste stream. Spent batteries should be disposed of by a qualified recycler or hazardous materials handler.
Wear yellow. Work safe.