

Title of Training	BW Max XT II Monitor & Calibration		
Equipment Info.	Make/Type/Size/Model	Personal/ Area 4-Gas Monitor & Calibration Unit	
Material Needed	Operating Manual		
	BW Monitor & Calibration Unit	Hard Hat-Safety Glasses-Work Boots-Hearing Protection	

## **BW Max XT II MONITOR TRAINING**

Well maintained equipment operated by trained personnel, are an essential for safe operation. Along with clear, well written procedures. Having the best tools are useless if we don't apply our training. Gas monitors are lifesaving equipment meant to check hazardous exposure levels. They test the air for different gases we may encounter at several of our job sites. They use warning alarms to inform the user when exposure limits have been reached. Regular calibration and bump testing is critical to ensure safe operation.

### **Detector Maintenance**

If these devices are to protect the health and safety of the individuals carrying them, they **MUST** be properly maintained.

- All Multi-gas detectors shall be tested and calibrated on the following schedule:
  - Bump tested daily or as indicated by the manufacturer (whichever is less).
  - Calibrated tested every 30 days. Testing is essential to ensure that the monitors are functioning as designed

### **Instrument Operation- Turning the Instrument On**

1. Turn the monitor on by depressing the blue button on the front of the unit.
2. The display will ask you to test the pump, at this point you will restrict air flow to the unit by covering the pump intake with your finger until the unit displays a pass or fail.
3. The instrument will run through self-checks and display reading parameters.
4. When it is done and all systems are ok, it is now ready to bump test or calibrate the unit.



Trainee Name (print)		Signature of Trainee	
Instructor Name		Date of Training	
Scan To:	Safety/Training/Equipment/BW Max XT II Monitor and Calibrator Training/YYYY-MM-DD		
Revision # 001-15	Page 1 of 4		

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### Instrument Calibration



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

Press the two release tabs on the docking module and raise the lid. It will pull from top going down.

Make sure that the tab at the top left of the monitor bay is all the way up. Insert the monitor so the front of the monitor faces the bay, top up, placing the bottom in first. Close the lid and press until the release tabs click. Once the monitor is in place, slide the tab at the top left down so that it inserts itself into the air inlet of the monitor.

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

- Base Station will display Bump LED
- Base Station will display Calibrate LED
- Press BUMP or CAL depending on what you would like to do.
- Once finished, you will see the prompt saying calibration complete and a PASS – Let the machine turn off monitor then you are free to use the instrument. (Green Light will Turn On)
- Restart the monitor & you are ready to use.
- If the bump or calibration **FAILS – DO NOT USE!!** Note the problem on the calibrator LCD and contact Safety

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Scan To:	Safety/Training/Equipment/BW Max XT II Monitor and Calibrator Training/YYYY-MM-DD		
Revision # 001-15	Page 2 of 4		

Title of Training	BW Max XT II Monitor & Calibration		
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NOTE: It is very important to Bump test the monitor daily & calibrate it every 30 days. Not doing this function will cause instrument not to work properly. The monitor needs to intake gas periodically in order to keep the sensors fresh and working. Not bumping or calibrating on a scheduled time frame may prove costly & incur delays on the project.

### **Job Set Up**

This monitor can be used as an area monitor or can be worn personally as it employs an integrated diaphragm pump with a port for a hose attachment. You will need to attach either a long tube with a wand filter for confined space or excavation purposes, or a filter directly attached to the port, both via a twist lock mechanism, for personal application or simple area monitoring not in a confined space or excavation.



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Scan To:	Safety/Training/Equipment/BW Max XT II Monitor and Calibrator Training/YYYY-MM-DD		
Revision # 001-15	Page 3 of 4		

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EMPLOYEE NAME (Print or Type)	EMPLOYEE SIGNATURE	TRADE	JOB TITLE
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Scan To:	Safety/Training/Equipment/BW Max XT II Monitor and Calibrator Training/YYYY-MM-DD		
Revision # 001-15	Page 4 of 4		