

BW MaxXT II

1, 2, 3, and 4 Gas Detector

Honeywell

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CHAPTER

1 Warranty

Limited Warranty and Limitation Liability

BW Technologies by Honeywell LP (Honeywell) 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. Honeywell's warranty obligation is limited, at Honeywell's option, to refund of the purchase price, repair or replacement of a defective product that is returned to a Honeywell authorized service center within the warranty period. In no event shall Honeywell'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 Honeywell'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 Honeywell;
- b. the buyer promptly notifying Honeywell of any defect and, if required, promptly making the product available for correction. No goods shall be returned to Honeywell until receipt by the buyer of shipping instructions from Honeywell; and
- c. the right of Honeywell 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.

THE BUYER AGREES THAT THIS WARRANTY IS THE BUYER'S SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. HONEYWELL SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR BASED ON CONTRACT, TORT OR RELIANCE OR ANY OTHER THEORY.

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.

Warranty Registration

https://sps.honeywell.com/us/en/products/safety/gas-and-flame-detection

Contacting Honeywell

Corporate Headquarters	United States	Asia	Europe
Honeywell	Honeywell	Honeywell Analytics	Honeywell Analytics
Analytics	Analytics	Asia Pacific	
Suite 110,	405 Barclay	7F SangAm IT Tower,	Javastrasse 2
4411-6 St SE	Boulevard	434 Worldcup Buk-ro,	8604 Hegnau
Calgary,	Lincolnshire,	Mapo-gu,	Switzerland
Alberta		Seoul 03922, Republic	Toll free: 00800-333-22244
Canada T2G	USA 60069	of Korea	Other countries, toll free: 1-
4E8		Tel: +82 (0) 2 6909	403-248-9226
Toll free: 1-		0300	Bwa.customerservice@honey
888-749-8878		Analytics.ap@honeywe	well.com
sps.honeywell.	sps.honeywell.	ll.com	sps.honeywell.com
com	com	sps.honeywell.com	

ISO 9001

CHAPTER

2 Introduction



To ensure personal safety, read See "Safety Information - Read First" on the next page for more information. and See "Cautions" on the next page for more information. before using the detector.

The BW MaxXT II gas detector ("the detector") warns of hazardous gas at levels above userdefined alarm setpoints.

The detector is a personal safety device. It is your responsibility to respond properly to the alarm.

Gases Monitored

The following table lists the gases that are monitored by the detector.

Gas Detected	Unit of Measure
Hydrogen sulfide (H ₂ S)	parts per million (ppm)
Carbon monoxide	parts per million (ppm)
Combustible gases (LEL)	a) percent of lower explosive limit (%LEL) b) percent by volume methane 0-5.0% v/v
Oxygen (O ₂)	% volume

CAUTION: FOR SAFETY REASONS, THIS EQUIPMENT MUST BE OPERATED AND SERVICED BY QUALIFIED PERSONNEL ONLY. READ AND UNDERSTAND THIS TECHNICAL REFERENCE GUIDE COMPLETELY BEFORE OPERATING AND SERVICING.

Safety Information - Read First

Use the detector only as specified in this technical reference guide, otherwise the protection provided by the detector may be impaired.

Read the See "Cautions" below for more information. on the following pages before using the detector.



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 must be

disposed of by a qualified recycler or hazardous materials handler.

Cautions

- *Warning:* Substitution of components may impair Intrinsic Safety.
- *Caution:* For safety reasons, this equipment must be operated and serviced by qualified personnel only. Read and understand the technical reference guide completely before operating or servicing.
- Do not use the detector if it is damaged. Inspect the detector before using. Look for cracks and/or missing parts.
- If the detector is damaged or parts are missing, contact Honeywell BW[™] MaxXT II immediately.
- Use only sensor(s) that are specifically designed for the MaxXT II model. Refer to Replacement Parts and Accessories.
- Calibrate the detector before first-time use and then on a regular schedule, depending on use and sensor exposure to poisons and contaminants. Sensors must be calibrated regularly and at least once every 180 days (6 months).
- Honeywell recommends to bump test the sensors, before each day's use, to confirm their ability to respond to gas by exposing the detector to a gas concentration that exceeds the alarm setpoints. Manually verify that the audible and visual alarms are activated. Calibrate if the readings are not within the specified limits.
- Protect the combustible sensor from exposure to lead compounds, silicones, and chlorinated hydrocarbons. Although certain organic vapors (such as leaded gasoline and halogenated hydrocarbons) may temporarily inhibit sensor performance, in most cases, the sensor will recover after calibration.
- Honeywell recommends the combustible sensor be checked with a known concentration of calibration gas after any known exposure to catalyst contaminants/poisons (sulfur compounds, silicon vapors, halogenated compounds, etc).

- The combustible sensor is factory calibrated to 50% LEL methane. If monitoring a different combustible gas in the % LEL range, calibrate the sensor using the appropriate gas.
- *Warning:* High off-scale LEL readings may indicate an explosive concentration.
- Only the combustible gas detection portion of this instrument has been assessed for performance by CSA International.
- For use only in potentially explosive atmospheres where oxygen concentrations do not exceed 20.9% (v/v).
- Any rapid up-scaling reading followed by a declining or erratic reading may indicate a gas concentration beyond upper scale limit, which may be hazardous.
- Calibrate only in a safe area that is free of hazardous gas.
- Use only Honeywell approved batteries for the MaxXT II detector. Refer to Replacement Parts and Accessories.
- Charge the detector before first-time use. Honeywell recommends the detector be charged after every workday.
- Charge the BW MaxXT II using the recommended charging adapter only. Do not use any other charging adapter. Failure to adhere to this precaution can lead to fire and/or explosion. Read and adhere to all instructions in the charger guide. Failure to do so can result in fire, electrical shock, personal injury, and/or property damage.
- Extended exposure of the BW MaxXT II to certain concentrations of combustible gases and air may stress a detector element, which can seriously affect its performance. If an alarm occurs due to high concentration of combustible gases, recalibration should be performed, or if needed, the sensor replaced.
- Do not test the combustible sensor's response with a butane cigarette lighter; doing so will damage the sensor.
- Do not expose the detector to electrical shock or severe continuous mechanical shock.
- Do not immerse the detector in liquids.
- The pump (XT-RPUMP-K1) is certified for use with the BW MaxXT IIdetector only.
- Do not attempt to disassemble, adjust, or service the detector unless instructions for that procedure are provided in the technical reference guide and/or that part is listed as a replacement part. Use only Honeywell BW[™] MaxXT II Replacement Parts and Accessories.
- The detector warranty will be voided if customer, personnel, or third parties damage the detector during repair attempts. Non-Honeywell BW[™] MaxXT II repair/service attempts void this warranty.
- *Warning:* DO NOT to use any tool (i.e., metal needle nose pliers) to manipulate the battery wires, insulation, or connector. There is a potential to short-circuit the battery wires that could result in battery damage and injury to the user.
- *Warning:* The lithium battery (MX-BAT01) may present a risk of fire or chemical burn hazard if misused. Do not disassemble, heat above 212°F (100°C), or incinerate. Do not use any other lithium batteries with theBW MaxXT II detector. Use of any other cell can cause fire and/or explosion. To order and replace the MX-BAT01 battery, refer to

Replacement Parts and Accessories.

- *Warning*: Lithium polymer cells exposed to heat at 266°F (130°C) for 10 minutes can cause fire and/or explosion.
- Dispose of used lithium cells immediately. Do not disassemble and do not dispose of in fire. Do not mix with the solid waste stream. Spent batteries must be disposed of by a qualified recycler or hazardous materials handler.
- Keep lithium cells away from children.
- Calibration cylinders that are used with a demand flow regulator must meet the following maximum inlet pressure specifications:
 - Disposable cylinders 0-3000 psig/70 bar
 - Refillable cylinders 0-3000 psig/70 bar

Symbol	Meaning
C US	Approved to both U.S. and Canadian Standards by CSA International
(Ex)	European Explosives Protection
CE	Conforms to European Union Directives
ATEX	Conforms to European ATEX Directives
IECEx	International Electrotechnical Commission Scheme for Certification to Standards for Electrical Equipment for Explosive Atmospheres
	Conforms to Russian Custom Union Certification and Declaration
S s	Conforms to Korea Testing Laboratory (KTL) Certification
Segurança	Conforms to Brazilian InMetro Certification
	Australian Regulatory Compliance Mark

Getting Started

The list below provides the standard items included with the detector. If the detector is damaged or parts are missing, contact the place of purchase immediately.

- Sensors: H₂S, CO, O₂, and combustible (LEL)
- Calibration hose with quick connector
- Charging adapter
- Quick reference guide
- Quick reference card

Note: The IR connectivity kit, which includes the IR Link, is sold separately.

To order parts, refer to Replacement Parts and Accessories.

The detector is shipped with the sensors, pump, and rechargeable battery installed. To replace sensors, the pump, or the battery, refer to Replacement Parts and Accessories.

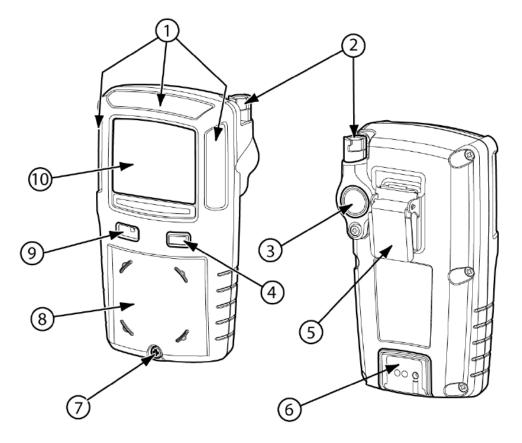
For instructions to replace the sensor(s), pump, or battery, refer to the procedures in the following sections:

- Replacement Parts and Accessories
- See "Replacing the Pump" on page 97 for more information.
- See "Replacing the Battery" on page 90 for more information.

To become oriented with the features and functions of the detector, refer to the following figures and tables:

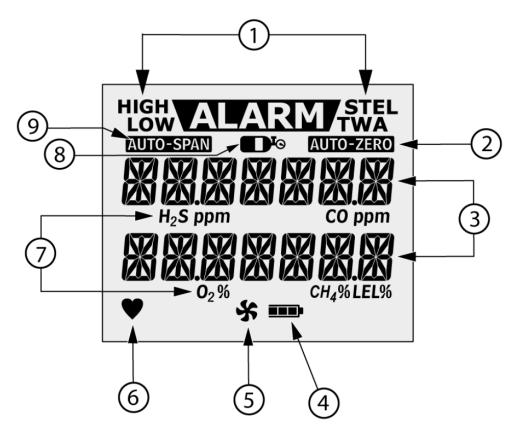
- See "Parts of the MaxXT II" on the next page for more information. describe the detector's components.
- See "Display Elements" on page 12 for more information. describe the detector's display elements and the detector's button.

Parts of the MaxXT II



Item	Description
1	Visual alarm indicators (LEDs)
2	Pump quick connector
3	Pump filter and moisture filter
4	Button
5	Alligator clip
6	Charging connector and IR interface
7	Diffusion cover locking screw
8	Diffusion cover
9	Audible alarm
10	Liquid crystal display (LCD)

Display Elements



lte m	Description
1	Alarm condition
2	Automatically zero sensor indicator
3	Numeric values
4	Battery life indicator
5	Pump indicator
6	Heartbeat indicator
7	Gas type identifiers
8	Gas cylinder indicator
9	Automatically span sensor indicator

Button

Button	Description
	• To activate the detector press
	 To deactivate the detector, press and hold until the OFF countdown is complete and the LCD deactivates. To view the date/time, TWA, STEL, and maximum (MAX) readings, press
	twice rapidly. To clear the TWA, STEL, and MAX readings, press
	when the LCD displays CLEAR ALL .
	• To initiate calibration, press and hold as the detector performs the
\bigcirc	OFF countdown. Continue holding while the LCD briefly deactivates and then reactivates to begin the CAL countdown. Release
	when the CAL countdown is complete.
	• To activate the backlight, press O and release.
	• To acknowledge the latched and pump alarms, press
	• To acknowledge a low alarm and disable the audible alarm temporarily,
	press . The Low Alarm Acknowledge option must be enabled in Safety Suite Device Configurator (SSDC)
	• To acknowledge any of the Due Today alarms (calibration, bump test,
	pump block test), press O.

Activating/Deactivating the Detector

Note: Ensure the diffusion cover is attached prior to activating the detector to verify the pump is working correctly.

To activate the detector, press in a safe area that is free of hazardous gas. Attach any pump accessories to the detector prior to activating the detector.

To deactivate the detector, press and hold U until the OFF countdown completes.



The maximum hose length for sampling is 75 ft (22m).

Startup Tests

The following startup tests are written as startup performance is intended. If an error occurs, refer to Troubleshooting. When the detector is activated, it performs the following fourteen startup tests: Battery Test, Audible/Visual Test, Firmware Version, Startup Message, Location Logging, Pump Test on Startup, Alarm Setpoints, Self-Test, Automatic Zero for H₂S, CO, O₂, and LEL, Calibration Due Date (optional), Force Calibration Enabled (optional), Cal IR Lock Enabled (optional), Bump Test,

Sensor and Power Test, Automatic Zero and O2 Calibration (optional), Calibration Due Date (optional), Last Calibration Failed (optional), Overdue Calibration, Cal IR Lock, Bump Test, Last Bump Test Failed, Force Bump (optional). Confirm these tests occur.

1. Battery Test

The detector performs a battery test during startup. If the battery has insufficient power to operate, the following screens displays before deactivating.

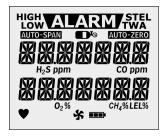


Recharge the battery for 6 hours and then reactivate the detector.

Refer to See "Charging the Battery" on page 88 for more information..

2. Audible/Visual Test

All of the LCD elements display simultaneously as the detector beeps, flashes, vibrates, and activates the backlight.



3. **Firmware Version**

The current firmware version installed on the detector displays on the LCD.



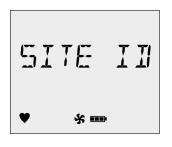
4. Startup Message

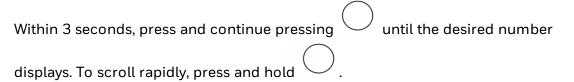
If enabled and data is entered in Safety Suite Device Configurator (SSDC), a startup message (25 characters per line) displays or scrolls (depending upon length of message) on the LCD. If the startup message option is not enabled, it is bypassed during the startup test.

Refer to See "Device Configuration" on page 28 for more information. in User Options.

5. Location Logging

If the **Location Logging** option is enabled, the detector prompts for a number (**1-999**) to be entered that identifies the location (wells, plants, or other areas) where the detector is being used.





Note: The site ID number that is entered does not reset when the detector is deactivated. If required, enter a new site ID when the detector is again activated.

6. Pump Test on Startup

Note: The diffusion cover must be attached to the detector to activate the pump and initiate the pump test.



The maximum hose length for sampling is 75 ft (22m).

In cold temperatures, the pump may require a short period of time to warm up before operating. If this is required, the following screen displays.



The LCD displays a countdown of the time remaining (in seconds) for the pump to warm up.

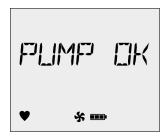
If the **Force Block Test** option is enabled, the detector performs a pump test. The following screen displays.

Using your finger, block the end of the hose. The following screen displays.



Note: If the hose is not blocked and unblocked within 2.5 minutes, the detector will assume the pump has failed and deactivates.

Successful Pump Test: If the pump test is successful, the following screen displays.



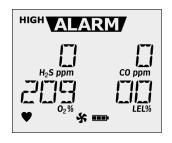
Unsuccessful Block Pump Test: If the pump is not operating correctly, the following screens display before the detector deactivates.



Activate the detector again. If the pump fails the startup again, refer to See "Troubleshooting" on page 98 for more information.

If the diffusion cover is not attached, the detector beeps and the following screen displays before continuing with the startup tests.

When the diffusion cover is replaced, the detector activates the pump alarm.

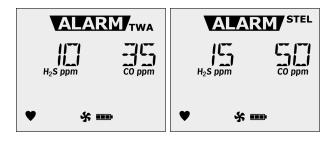




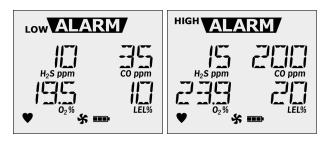
7. Alarm Setpoints

Note: Alarm setpoints vary by region. Refer to See "Resetting Gas Alarm Setpoints" on page 62 for more information..

If the CO and/or H_2S sensor is enabled, the alarm setpoints for the time-weighted average (**TWA**) and the short-term exposure limit (**STEL**) display.



Next, the LOW and HIGH alarm setpoints display for all of the enabled sensors.



8. Self-Test

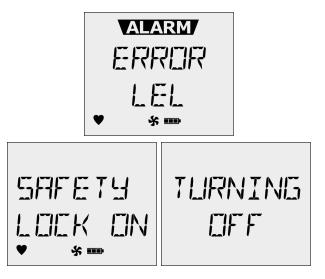
The detector then performs a self-test to ensure it is operating correctly. The following screen displays during the test.



Successful Self-Test: If the self-test is successful, the following screen displays.

Unsuccessful Self-Test

Lockout on Self-Test Error Option Enabled: If this option is enabled and a sensor fails, the following screens display before the detector deactivates.



If **Lockout on Self-Test Error** is enabled, the sensor must be replaced to activate and operate the detector. Refer to See "Replacing a Sensor or Sensor Filter" on page 91 for more information.

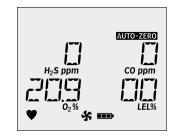
Lockout on **Self-Test Error Option Disabled:** If this option is disabled and a sensor fails the self-test, the LCD displays an error message for the applicable sensor. The startup tests continue.



Note: Enabled sensors are continually tested while the detector is operational.

9. Automatic Zero for H2S, CO, O2, and LEL

To initiate auto zero during startup, the **Auto Zero on Startup** option must be enabled (sensors are enabled individually).



If the **Force Calibration** option is enabled and the sensor(s) is past due for calibration, the sensor will not auto zero during startup. The sensor must be calibrated.

Note: If the **Auto Zero on Startup** option is not enabled in Safety Suite Device Configurator (SSDC) for any of the sensors, this startup test is bypassed. If ambient air is set to be measured as 20.8% vol., the automatic oxygen calibration screen displays **20.8%** instead of **20.9%**.

If Previous Calibration Failed

If the last calibration performed was unsuccessful, the following screens display.



Note: BW Technologies by Honeywell recommends the sensor(s) be calibrated immediately.

10. Calibration Due Date (optional)

The LCD displays the number of days remaining until the next calibration is due.



Note: If the **Calibration Interval** field is set to **0** in Safety Suite Device Configurator (SSDC), it disables the calibration due date function and this test is bypassed. Refer to See "Sensor Configuration" on page 39 for more information. in the User Options.

If any sensor is past the calibration due date, the detector beeps, flashes, and vibrates while the LCD displays the following screen.



Press to acknowledge the warning. If is not pressed within 2 minutes, the detector automatically deactivates.

11. Force Calibration Enabled (optional)

If the **Force Calibration** option is enabled in Safety Suite Device Configurator (SSDC) and a sensor is past due, the sensor(s) must be calibrated to continue and enter normal operation.



Press to acknowledge. Refer to See "Calibration Procedure" on page 74 for more information. to begin calibration. If is not pressed to enter calibration within 2 minutes, the detector automatically deactivates.

12. Cal IR Lock Enabled (optional)

If the Cal IR Lock option is enabled in Safety Suite Device Configurator (SSDC), the following screen displays.

If **IR LOCK ENABLED** is enabled, the sensor(s) must be calibrated using the IR Link or an IntelliDoX docking station.

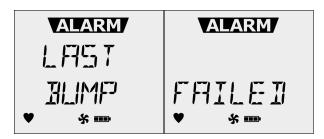
For more information, refer to See "Device Configuration" on page 28 for more information. in User Options.

13. Bump Test

Note: BW Technologies by Honeywell recommends to bump test the sensors before each day's use to confirm their ability to respond to gas by exposing the detector to a gas concentration that exceeds the alarm setpoints.

If Previous Bump Failed

If the last bump test performed was unsuccessful, the following screens display.



Note: BW Technologies by Honeywell recommends the sensor(s) be bump tested immediately.

The LCD next displays the number of days remaining until the next bump test is due.



Force Bump Enabled (optional)

If the **Force Bump** is enabled in Safety Suite Device Configurator (SSDC) and a sensor is overdue for a bump test, the sensor(s) must be tested to continue and enter normal operation. The following screen displays.



Apply gas while **BUMP DUE NOW** displays. Verify the visual, audible, and vibrator alarms activate. The detector must enter alarm to pass the bump test. For complete instructions, refer to See "Bump Test" on page 68 for more information..

If Force Bump is disabled, press \bigcirc to acknowledge the warning and continue with the startup tests.

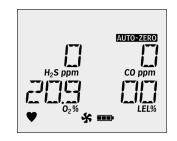
Note: If the bump test interval field is set to **0** in Safety Suite Device Configurator (SSDC), the startup bump test is bypassed. Refer to Bump Interval in See "Sensor Configuration" on

User Manual

page 39 for more information.. The detector remains in alarm until the gas dissipates and clears from the sensors. Verify that the visual and audible alarms activate.

Startup Test Pass

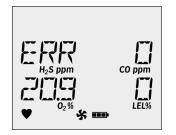
If the detector passes all of the startup tests, the detector enters normal operation and displays the ambient gas readings.



The detector begins recording the maximum gas exposure (MAX), and calculating the short-term exposure level (STEL) and time-weighted average (TWA) exposures.

Startup Test Fail

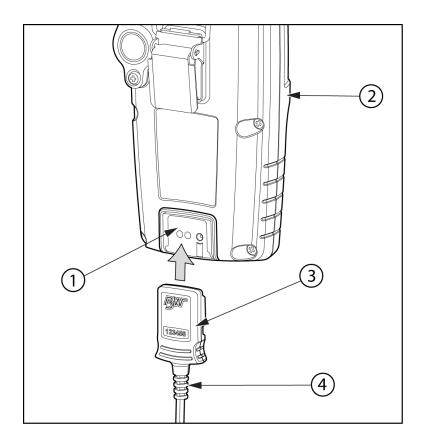
After the detector enters normal operation, **ERR** displays if a sensor has failed the selftest. To determine the cause and solutions for a failed sensor, refer to See "Troubleshooting" on page 98 for more information..



Installing Safety Suite Device Configurator (SSDC)

Safety Suite Device Configurator (SSDC) is required to configure the detector. To install Safety Suite Device Configurator (SSDC) visit the <u>SPS Website</u> to download the software and get additional information about the product.

Using Safety Suite Device Configurator (SSDC) to Configure the Detector



ltem	Description
1	IR and charger interface
2	BW MaxXT II
3	IR Link
4	USB cable

When Safety Suite Device Configurator (SSDC) is installed, refer to the following procedures.

- 1. Activate the detector and wait for the startup tests to complete.
- 2. Connect the USB cable to the USB port on the computer.
- 3. Connect the USB cable to the IR Link.
- 4. Insert the IR Link into the IR interface on the back of the detector.
- 5. From the PC, open Safety Suite Device Configurator (SSDC).
- 6. Login using your username and password (Default username: *administrator*, default password: *Default123*)

The system will perform a startup scan to identify any plugged devices.

7. Select the Device from the list by clicking on the serial number.

y Suite Device Configurator											- 0
afety Suite Device Co	nfigurator									t I	8 @
Device List View	Templates	Data Download Scheduler	Custom Fields								
6 devices shown										Column	is O Refresh
Filter by	Clear All	Status Active ×							Search Intelli	loX IPs Search	AutoRAE2 IPs
CONNECTION	Clear										
Connected	°0	6º SERIAL NUMBER	FIRMWARE VERSION	DEVICE TYPE	MODEL NUMBER	ASSIGNED WORKER	LOCATION	LAST SUCCESSFUL CALIBRATIC	LAST SUCCESSFUL BUMP	LAST DOWNLOAD DATE	/LC DEVICE STAT
Not Connected	2	MA221-002767	V13.000	GasAlertMax XT	GasAlertMax XT			-	-	-	Active
		63 10210 MA221-002767	-	AutoRAE 2 Controlle	DKS-6000			-	-	06/04/2021	Active
O DEVICE STATUS	Clear	27 M03170094911	-	MicroRAE	PGM-2802			-		06/04/2021	Active
Active		8? MOLCA13953	-	MultiRAE Lite	PGM-6208			05/13/2021	05/13/2021	06/04/2021	Active
Inactive		2? <u>T023006640</u>	-	MultiRAE (Pumped)	DKS-6001			-	-	-	Active
Out for Service		27 T027000020		MicroRAE Cradle	DKS-6005			-	-	-	Active
Archived											

8. Click on **Settings** to view the current device's settings.

	Safety Suite Device Configurator		- Ø :
Vertilis Sensors Sensors	Safety Suite Device Configurator		5 9 8 0
Custom Fields	Control Contro Control Control Control Control Control Control Con	Definition	Calibration Left successful, clusterion NA KA KAN OLE NA Sourcessful clusterion Total Sourcessful of persons Total Sourcessful of pe
RESTORE DEFAULTS UNDO CHANGES SAVE SAVE AS FILE		Custom Fields	RESTORE DEFAULTS UNDO CHANGES SAVE SAVE AS FILE

- 9. Refer to the following sections in this guide for descriptions about entering data, enabledisable, and define settings.
- 10. When all settings are defined, click at the bottom of the configuration window to save the new configuration of the detector.

CHAPTER

3 Configuration

Device Configuration

The device configuration can be made through Safety Suite Device Configurator (SSDC) to enable/disable and define settings for the detector. Refer to the following options for descriptions and functionality.

Note: The Serial Number and Firmware Version fields require no data entry. Settings for these fields are factory defined.

Serial Number Field

This field displays the serial number (e.g. MA221-002767) of the detector. It can be found in the Device List View or in the Details tab (once inside the device's settings)

ి	SERIAL NUMBER	FIRMWARE VERSION	DEVICE TYPE	MODEL NUMBER		
°0	MA221-002767	V13.000	GasAlertMax XT	GasAlertMax XT	< BACK TO DEVICE LIST	A221-00276 GasAlertMax XT
8	T021006284	-	AutoRAE 2 Controlls	DKS-6000		
8	M03170094911	-	MicroRAE	PGM-2602	Details Sensors	Settings
8	M01CA13953		MultiRAE Lite	PGM-6208	-	FIRMWARE VER
8	T023006640	-	MultiRAE (Pumped)	DKS-6001	GasAlertMax XT	v 13.000
8	T027000020	-	MicroRAE Cradle	DKS-6005	CONNECTED	

Firmware Version

CBACK TO DEVICE LIST MA221-002767 GasAlertMax X Details Sensors Settings	r	
GatAfertMax XT CONNECTED Assignment UCCATION V		Calibration List SUCCESSFUL CLISERION N/A Material terminations at sense as Calibration Calibration Calibration Calibration B Lock

This field displays the current firmware version (e.g. v 13.000) that displays on the detector LCD during the startup tests. If new firmware is uploaded to the detector, the Firmware Version field automatically updates.

Force Bump

Safety Suite Device Configurator		– a ×
Safety Suite Device Configurator		0 9 8
CBACK TO DEVICE LIST MA221-002767 GasAlertMax XT		1
Details Sensors Settings GasAlertMax XT v13000	DATE 8 TIME 10/28/2021	
Asignment	Bump Test TAIC SUCCEAR & RAO TEST MA UNITERAD TEST DAE MA Dester last information all mail Charles continued question Cusk out on settleat enter Custom Fields	Calibration And Excellenge Collegation N/A N/A N/A N/A Calibration Calibration Calibration II Loa:
		RESTORE DEFAULTS UNDO CHANGES SAVE SAVE AS FILE

A bump test must be performed regularly to ensure the sensor(s) are responding correctly to test gas. If enabled and the sensor(s) is past due, a bump test must be performed and the overdue sensor must enter into alarm. If this option is enabled, the following screen displays during the startup tests.



Note: Honeywell recommends to bump test the sensors before each day's use to confirm their ability and response to gas by exposing the detector to a gas concentration that exceeds the high alarm setpoints. Verify that the audible and visual alarms activate. Calibrate if the readings are not within the specified limits.

For complete instructions to perform a bump test, refer to See "Bump Test" on page 68 for more information..

The detector is shipped with the Force Bump option **disabled**.

Force Calibration

Safety Suite Device Configurator		- 0 ×
Safety Suite Device Configurator		日 🕫 8 ⑦
ABACK TO DEVICE LIST MA221-002767 GasAlertMa Details Sensors Settings	×XT	
	DATE & TIME	
Assignment	Bump Test	Calibration
WORKER v LOCATION v	LAST DECESSION, BLADE FEER NOT ELAND FEER DUE NAA Due starts en tothorment when due	LAT DECEMPTIC OL BRATCH AND
	Custom Fields	
		RESTORE DEFAULTS UNDO CHANGES SAVE AS FILE

Force Calibration Enabled: If enabled and a sensor(s) is past due for calibration, the following screen displays.

BW MaxXT II



The sensor(s) must be calibrated to continue and enter normal operation. For complete instructions, refer to See "Calibration" on page 70 for more information..

Note: If the calibration is unsuccessful for any of the sensors, the detector deactivates.

Force Calibration Disabled: If disabled, the CAL DUE NOW screen displays. Press \smile to acknowledge the warning and enter normal operation.

The detector is shipped with the Force Calibration option disabled.

Note: If overdue for calibration, BW recommends the sensor(s) be calibrated immediately.

Cal IR Lock

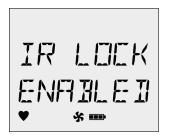
😂 Safety Suite Device Configurator			– 0 ×
Safety Suite Device Configurator		▼	980
C SACK TO DEVICE LIST MA221-002767 GasAlertMax XT Details Sensors Settings			1
Details Sensors Settings Details GasAlertMax XT CONNECTED	DATE & TIME 10/28/2021		
Asignment WolkER LOCATION	Bump Test User Successful Rule Test NA User Successful Rule Test NA User Successful Rule Test NA User Successful Rule Main Control Compliance Custom Fields	California	NOUE
		RESTORE DEFAULTS UNDO CHANGES S.	SAVE SAVE AS FILE

Note: The auto-zero function is not affected if the CAL IR Lock option is enabled. The detector still performs the auto-zero function (if enabled).

Note: If the Cal IR Lock option is enabled and a manual calibration is attempted, the sensor(s) will only auto zero. Calibration will not be performed.

If enabled, the sensor(s) can only be calibrated using the IR Link with Safety Suite Device Configurator (SSDC) or the IntelliDoX station.

If the Cal IR Lock option is enabled, the following screen displays.



To calibrate using an IR device, refer to one of the following:

- See "Calibrating Using the IR Link" on page 80 for more information.
- IntelliDoX Station User Manual

The detector is shipped with the CAL IR Lock option **disabled**.

Lockout on Self-Test Error (failed sensor lock)

Safety Suite Device Configurator		- Ø ×
Safety Suite Device Configurator		日 🕫 8 ⑦
ACKTODEWCELIST MA221-002767 GsaldertMax.XT Details Sensors Settings GasAlertMax.XT conneccrep	24/2.5 TLC 10/26/021	
Assignment WORKER LOCATION 	Bump Test LASE NUCCEARALE RARP TEST. NA MA Deve atter indoverser taten atte	Calibration LAST SUCCEMPLIC LABRITON N/A Prove and is matching and operating and opera
		RESTORE DEFAULTS UNDO CHANGES SAVE SAVE AS FILE

If enabled and a sensor fails during startup, the following screens display and the detector deactivates.



To enter normal operation, the sensor must be operating correctly. Refer to See "Troubleshooting" on page 98 for more information. See "Replacing a Sensor or Sensor Filter" on page 91 for more information..

The detector is shipped with the Lockout on Self-Test Error option disabled.

Datalog Interval

Safety Suite Device Configurator		- σ ×
Safety Suite Device Configurator		5 9 8 🤊
C BACK TO DEVICE LIST MA221-002767 GasAlertMax XT		
Details Sensors Settings		
Bas ALARMS		
ALARM TYPE Tracking Alarm		
DATALOGGING		
DATALOG INTERAL 1 sec	Location Logging	
INSTRUMENTS OPERATION		
Safe Mode		
INSTRUMENT USER PREFERENCES		
Confidence Beep	Z Enable Intelliflash	
CONFIDENCE INTERVAL sec 10 sec 1 - 120 sec sec	і ПГЕЦЛРАЗН ИГЕРАД. 1 1 - 120 жж. 480	
Startup Message Top Line		1
G A MAX		
25 Chars Startup Message Bottom Line	LANGUNGE English	
	RESTORE DEFAULTS UNDO	CHANGES SAVE SAVE AS FILE

The Datalog Interval (seconds) field defines how often the detector records a datalog sample (every 1-120 seconds). You can find this option under the Settings tab to enter the desired value.

Location Logging

nlety Suite Device Configurator					- a ×
Safety Suite Device Configurator				t I	8 0
CARCK TO DEVICE LIST MA221-002767 GasAlertMax XT					
Details Sensors Settings					
ALARMS ALARM TYPE Tracking Alarm					
DATALOGGING					
DATALOG INTERNAL 1 sec 1-120 sec	Location Logging				
INSTRUMENTS OPERATION					
Safe Mode					
INSTRUMENT USER PREFERENCES					
Confidence Beep	C Enable Intelliflash				
10 Sec	INTELLIFLASH INTERVAL sec				
1 - 120 sec.	1 - 120 sec.				
Startup Message Top Line					
G A MAX					
25 Chars Startup Message Bottom Line	LANGUAGE English ~				
		RESTORE DEFAULTS	UNDO CHANGES	SAVE	SAVE AS FILE

The Location Logging logs where the detector is being used such as a gas plant, well site, vehicle, etc. If enabled, the detector prompts for a three digit value (1-999) to be entered during the startup tests.

	SITE	II	
	♥ ☆ ■	•	
To enter a number from 1-999, contir scroll rapidly, press O and hold.	nue pressing) un	til the desired number displays. To
	SITE 999	3	

The location entries are recorded in the datalogs. The detector is shipped with the Location Logging option disabled.

Safe Mode

Safety Suite Device Configurator		- σ ×
Safety Suite Device Configurator		5 🗐 🖾
C SACK TO DEVICE LIST MA221-002767 GasAlerth	4ax XT	
Details Sensors Settings		
GAS ALARMS ALAGM TYPE Tracking Alarm ~		
INTRUGENTERAL SRC	Location Logging	
INSTRUMENT USER PREFERENCES	Exam statificati	
CONFIDENCE INTERVAL 10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Course swellman IntELLFLASHINTERNAL IntELLFLASHINTERNAL IntELLFLASHINTERNAL IntElLFLASHINTERNAL IntElLFLASHINTERNAL	
Bankup Mesage Rig Line G.A.MAX 25 Chairs Bankup Mesage Botton: Line	LANGUAGE Exglais V	
	RESTORE DE	EFAULTS UNDO CHANGES SAVE SAVE AS FILE

If an alarm condition occurs, the LCD displays the real-time readings for each sensor. If enabled, SAFE displays continuously on the LCD unless an alarm condition occurs.



Confidence Beep

Stills State Device Configurator	- 0 ×
Safety Suite Device Configurator	8 0
B CACKTODENCELUST MA221-002767 GasAlertMax XT	
Definition Internal_ sec 1 sec 1-30 me	
INSTRUMENTS OPERATION Store Note	
INSTRUMENT USER PREFERENCES	
00000ENCENTERAL 866 1-229ac 1-229ac 1-229ac	
Stanlag Menager Top Line G. A. MAX	
25 Chais Erglisch V Bertur Menage Bottom Line XT XT	
25 Chars	

Note: Confidence beep automatically disables during a low battery alarm.

If enabled, the confidence beep provides continuous confirmation that the detector is operating correctly. To define how often the detector beeps (every 1-120 seconds), enter the value in the Confidence Interval field. The detector is shipped with the Confidence Beep option disabled.

Confidence Interval

🕄 Safety Suite	Device Configurator				0 ×
Safety	Suite Device Configurator		1	28	?
Ð	BACK TO DEVICE LIST MA221-002767 GasAlertMax XT				
(京 28	DATALOG INTERVAL sec 1 120 sec	Leartion Logging			
	INSTRUMENTS OPERATION				
	NSTRUMENT USER PREFERENCES				
	Confidence Beep	Crable Intellifiash			
<	10 Sec	NTELIFASHNTERAL sec 1-125 sec			
	Sartup Massage Top Line G.A.MAX 25 Chars 25 Chars	LANGAGE - Fighth · ·			
	XT				
	25 Chars				
		RESTORE DEFAULTS	UNDO CHANGES SAVE	SAVE	AS FILE

The Confidence Interval (seconds) field defines how often the confidence beep occurs (detector beeps). Enter the desired value (every 1-120 seconds). The Confidence Beep option must be enabled.

Startup Message Top Line

ute Device Configurator ety Suite Device Configurator		□ ₽ 8 (
KACKTO DEVICE LIST MA221-002767 GasAlertMax X	т	
DATALOG INTERVAL sec 1-120 sec	Location Logging	
INSTRUMENTS OPERATION		
Safe Mode		
INSTRUMENT USER PREFERENCES		
Confidence Beep	Trable Intellifiash	
CONFIDENCE INTERVAL 10 sec 1-120 sec	1 NTELLFLACH INTERVAL 56C 56C	
Startup Message Top Live G A MAX 20 Chart Startup Message Bottom Live	LANGLAGZ English v	
XT		
	PESTO	RE DEFAULTS UNDO CHANGES SAVE SAVE AS I

Enter a line of text that will display on the detector LCD during startup (maximum 25 characters, spaces included). Enter any type of information such as employee name, plant, area, emergency number(s), etc. Depending upon the length of the message, text will either display or scroll across the top line of the LCD.

Startup Message Bottom Line

Safety Suite	Device Configurator						$\sigma ~ \times$
Safety	v Suite Device Configurator			ii ✓	P	8	0
<u> </u>	GACK TO DEVICE LIST MA221-002767 GasAlertMax XT						
⊊ R	DATALOG INTERVAL sec	Location Logging					
	INSTRUMENTS OPERATION						_
	Safe Mode						
	INSTRUMENT USER PREFERENCES						
	Confidence Beep	🛃 Enable intellifiash					
	CONFIDENCE INTERVAL 50C 1-320 Mer.	INTELLIPLASH INTERVAL 1 Sec 1-120 sec					
	Startup Message Top Line G A MAX						
	25 Chars estrup Message Bottom Line XT	LANGUAGE English					
	28 Ches						
		RES	STORE DEFAULTS UNDO CHANGES	; SA	AVE	SAVE AS	S FILE
						_	_

Enter a line of text that will display on the detector LCD during startup (maximum 25 characters, spaces included). Enter any type of information such as employee name, plant, area, emergency number(s), etc. Depending upon the length of the message, text will either display or scroll across the bottom line of the LCD.

Language

Safety Suite Device Configurator			- o ×
Safety Suite Device Configurato	pr		9 9 9
BACK TO DEVICE LIST	A221-002767 GasAlertMax	×XT	
Confidence Beep		V Enable Intelliflash	
CONFIDENCE INTERVAL 10 1-120 sec.	sec	INTELLIFLASH INTERVAL sec 1 - 120 sec.	
Startup Message Top Line			
G A MAX			
25 Chars	2	LANGUAGE	
Startup Message Bottom Line		English	
ХТ		Francais Deutsch	
25 Chars	20	Espanol cortugues	
		RESTORE DEFAULTS UNDO CHANGES	SAVE SAVE AS FILE

The Language field provides a drop down menu that includes the following language options:

- English
- Français
- Deutsch
- Español
- Português

From the drop down menu, select the required language. When the settings are saved to the detector, the LCD displays all screens in the selected language. The detector is shipped with English displaying as the default language.

Sensor Configuration

The Sensor tab adjusts settings for each individual sensor. A separate sensor section is provided for each sensor.

Note: Depending upon the sensor, the options may vary.

	Sulfide	ľ	CO - Carbon Mon	oxide	Ĩ	O2 - Oxygen		Ø	LEL - Combustib	es	Ũ
Alarm Setpoints HIGH ALARM LSD Oppm LDW ALARM LOO Oppm TWA ALARM LOO Oppm STEL ALARM LSO Oppm	Calibration Let 194 Net 1940 INTERNAL 1950 SPAN LEVEL 25.0 ppm STEL 15 mins	Bump Test Laet NA Men: YAA INTERNAL O days	Alarm Setpoints HIGH ALARM 200.0 ppm LCW ALARM 350 ppm TWA ALARM 350 ppm STEL ALARM 500 ppm	Calibration Law NA Max NA INTERNAL 180 days SPAN LEVEL 100.0 ppm STEL 15 mins	Bump Test Lee: NA NME: NA INTERAL Odays	Alarm Setpoints HIGH ALARM 23.5% 02 LOW ALARM 19.5% 02	Calibration Latibat InterNal INTERNAL 180 days SPAN LEVEL 18.0% 02	Bump Test Last NA Next NA INTERVAL O days	Alarm Setpoints HIGH ALARM 200%LEL LOW ALARM 100%LEL	Calibration Lee: MA Men: MA INTERVAL 180 days SMAN LEVEL 50.0%LEL	Bump Test Lot: NA More: NA INTERNAL O days

Disable Sensor



Use extreme caution when disabling a sensor. The disabled sensor cannot detect and alarm against the applicable gas.

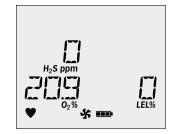
🕃 Safety Suite I	Vevice Configurator			-	٥
Safety	H2S - Hydrogen Sulfide			×	?
0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Disable Sensor ✓ Auto-zero on Startup Low Alarm Acknowledge Extra Resord Alarm Setpoints	TWA ALARM 10.0 ppm 1-200 ppm Intervals BUMP TEST 0 days 0-365 days STEL 5-15 mins TWA PERIOD 8 hours 4-16 hours	CALIBRATION days 180 days 0-365 days		
		RESTORE DEFAULTS	UNDO CHANGES SA	VE.	S FILE

To disable a sensor, complete the following:

- 1. Go to the Sensors tab and click on the edit *v* button from the sensor you wish to disable.
- 2. Check the box Disable Sensor



4. The LCD automatically updates. In the following example, the CO gas type and sensor readings no longer display.



3.

Auto Zero on Startup

Disable Sensor 🗸 Auto-zero on Startup 🗌 Low Alarm A	Acknowledge Extra Res	olution				
Alarm Setpoints						
	ISTEL ALARM	TWA ALARM 10.0	ppm			
1.5-200 ppm 1.5-200 ppm 1-2	200 ppm	1-200 ppm				
Low Alarm should be less than or equal to High Alarm						
0 20 40 60 80 100 120 140	0 160 180 200					
		Intervals				
Calibration		- BUMP TEST		CALIBRATION		
CALIBRATION GAS		0	days	180	days	
		0-365 days		0-365 days		
10-199.9 ppm		STEL	mins			
		5-15 mins				
		TWA PERIOD -				
		8	hours			

When enabled, the sensors automatically zero during the startup tests. The Auto Zero on Startup option is available for the CO, H_2S , LEL, and O_2 sensors.

The detector is shipped with the Auto Zero on Startup option enabled for all sensors.

Low Alarm Acknowledge

😌 Safety Suite De	vice Configurator	-	٥
Safety	H2S - Hydrogen Sulfide	×	?
日 (字) 88	Diable Sensor Auto-zero on Startup Low Alarm Acknowless Extra Resolution Diable Sensor HIGH ALARM ppm 15.0 ppm 100 ppm 15.0 ppm 1200 ppm 1-200 ppm 1-200 ppm 1-200 ppm 1-200 ppm 20 40 60 80 100 1200 ppm 20 40 60 80 100 1200 ppm 1-200 ppm 20 40 60 80 100 1200 ppm 1-200 ppm 20 40 60 80 100 1200 ppm 1-200 ppm 20 40 60 100 1200 ppm 1-200 ppm 1-200 ppm 20 40 60 120 140 160 120 200 20 50 ppm 1-200 ppm 1-200 ppm 1-200 ppm 0	3	
	RESTORE DEFAULTS UNDO CHANGES SI	AVE	5 FILE

Note: The Low Alarm Acknowledge option is not applicable to O_2 .

If enabled, the audible alarm can be disabled during a low alarm condition. The LED and visual alarm indicators remain active until the alarm condition changes or the detector deactivates.

Press to acknowledge the low alarm and deactivate the audible alarm. The detector is shipped with the Low Alarm Acknowledge disabled.

Low Alarm

🕃 Safety Suite De	vice Configurator			-	٥
Safety	H2S - Hydrogen Sulfide			×	?
日 (学 88	□ Disable Sensor ✓ Auto-zero on Startup Low Alarm Acknowledge Extra Resolut Name 150 ppm 150 ppm 150 ppm 100 150 ppm 1500 ppm 1-200 ppm 1-200 ppm 20 40 60 80 100 120 140 160 180 200 CallBration 25.0 ppm 1-200 ppm 160 180 200 CallBration 25.0 ppm 100 120 140 160 180 200 CallBration 10-1999 ppm 100 120 140 160 180 200	tion TWA ALARM ppm 100 ppm 1-200 ppm Intervals BUMP TEST days 0-365 days STEL STEL mins 5-15 mins TWA PERIOD TWA PERIOD hours 4-16 hours 4-16 hours	CALIBRATION 180 0-365 days	15	
		RESTORE DEFAULTS	UNDO CHANGES	AVE	SFILE

Enter the low alarm setpoints for each sensor (applicable to all sensors). Refer to See "Resetting Gas Alarm Setpoints" on page 62 for more information. for factory defined alarm setpoints.

H₂S ppm IIII ♥ 02% ★ ■■	

High Alarm

😌 Safety Suite De	vice Configurator			-	٥
Safety	H2S - Hydrogen Sulfide			×	?
日 京 8	Disable Sensor Image: Auto-zero on Startup Low Alarm Acknowledge Extra Resol Disable Sensor Image: Auto-zero on Startup Low Alarm Acknowledge Extra Resol Low Alarm Setpoints Image: Auto-zero on Startup Startup Startup Startup Low Alarm Sold be less than or equator high Alarm Image: Auto-zero on Startup Startup Startup Startup 20 40 60 80 100 120 140 180 200 Calibration CALIBRATION GAS ppm 10-1999 ppm	ution TWA ALARM ppm 1-200 ppm 1-200 ppm Intervals BUMP TEST 0 days 0-365 days STEL 15 mins 5-15 mins TWA PERIOD 8 hours 4-16 hours	CALIBRATION 180 0-365 days	days	
		RESTORE DEFAULTS	UNDO CHANGES	SAVE	S FILE

Enter the high alarm setpoints for each sensor (applicable to all sensors). Refer to See "Resetting Gas Alarm Setpoints" on page 62 for more information. for factory defined alarm setpoints.

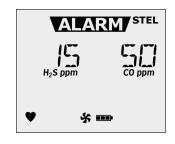
STEL Alarm

□ Disable Sensor ✓ Auto-zero on Startup Low Alarm Acknowledge ▲ Alarm Setpoints ↓ LOW ALARM ↓ STEL ALARM ↓ DO ALARM ↓ STEL ALARM ↓ 150 µpm ↓ 15-200 ppm ↓ 200 ppm	Extra Resolution	
LOW ALARM HIGH ALARM STEL ALARM 10.0 ppm 15.0 ppm 15.0		
Low Alarm should be less than or equal to High Alarm 0 20 40 60 80 100 120 140 160 18	ppm 10.0 ppm 1-200 ppm	
Calibration CALIBRATION GAS 25.0 ppm 10-1999 ppm	Intervals BUMP TEST 0 days CALIBRATION 180 days Co365 days STEL 5 TSTEL 5-15 mins TWA PERIOD 8 hours 4-16 hours	

Note: Standard factory alarm setpoints vary by region. Refer to See "Resetting Gas Alarm Setpoints" on page 62 for more information. for OSHA factory settings.

The short term exposure limit (STEL) is the maximum permissible gas concentration a worker can be safely exposed to for short periods of time (5-15 minutes maximum).

- 1. Refer to the applicable regulatory requirements in your area for defining STEL alarm setpoints.
- 2. Enter the setpoint in the STEL Alarm (ppm) field.
- 3. After entering the STEL setpoint, the STEL interval value (5-15 minutes) must be entered.



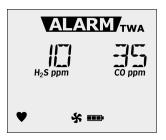
TWA Alarm

Disable Sensor 🔽 Auto-zero on Startup 🗌 Low Alarm Acknowled	ge Extra Resolution		
Alarm Setpoints LOW ALARM HIGH ALARM STEL ALA 10.0 ppm 15.0 ppm 15.0	Ppm TWA ALARM	ppm	
1.5-200 ppm 1.5-200 ppm 1-200 ppm Low Alarm should be less than or equal to High Alarm 1.5-200 ppm 1-200 ppm	1-200 ppm	Ph.	
0 20 40 60 80 100 120 140 16	0 180 200		
Calibration	Intervals		
CALIBRATION GAS	BUMP TEST	days CALIBRATIC	ON days
25.0 ppm 10-199.9 ppm	0-365 days	0-365 days	
70-7323 bhu	15	mins	
	5-15 mins		
	TWA PERIOD - 8	hours	
	4-16 hours		

The time-weighted average (TWA) is a safety measure used to determine accumulated averages of gases. An average is determined using the Occupational Safety and Health Administration (OSHA) method to ensure the worker leaves an area when the maximum average is accumulated.

OSHA: The OSHA method is defined as a moving average that accumulates over an 8-hour average. If the worker is in the field longer, the oldest accumulated values (first hour) are replaced by the newest values (ninth hour). This continues for the duration of the work shift until the detector is deactivated.

- 1. Refer to See "Resetting Gas Alarm Setpoints" on page 62 for more information. for factory alarm setpoints.
- 2. Enter the TWA alarm setpoint for the H_2S and the CO sensor in the TWA Alarm (ppm) field. TWA is not applicable to O_2 and LEL.



3. Enter a value (4-16 hours) in the TWA Period (hours) field to define the duration of the moving average.

Calibration Gas (ppm)

H2S - Hydrogen Sulfide	
Disable Sensor V Auto-zero on Startup Low Alarm Acknowledge	Extra Resolution
Alarm Setpoints	
LOW ALARM HIGH ALARM STEL ALARM 10.0 ppm 15.0 ppm 15.0 ppm	ppm 10.0 ppm
10.0 ppm 15.0 ppm 15.0 p 1.5-200 ppm 1.5-200 ppm 1-200 ppm<	ppm 10.0 ppm
Low Alarm should be less than or	1-200 ppm
equal to High Alarm	
0 20 40 60 80 100 120 140 160 180	200
Calibration	Intervals
	BUMP TEST CALIBRATION
CALIBRATION GAS	0 days 180 days
10-199.9 ppm	0-365 days 0-365 days
	15 mins
	5-15 mins
	TWA PERIOD
	8 hours



The gas concentration value entered in Safety Suite Device Configurator (SSDC) must match the gas concentration value on the gas cylinder.

Note: The gas concentration value for the O_2 sensor must be calibrated with a % value other than 20.9 or 20.8%, such as 18%.

To input a calibration gas follow the next steps:

- 1. Select the applicable sensor and click on the edit 🧪 icon.
- 2. Enter the gas concentration value in the Calibration Gas (ppm) field for H_2S and CO.

3. Enter the gas concentration value in the Calibration Gas (%) field for O_2 and LEL.



Bump Interval

Safety Suite De	www.configurator H2S - Hydrogen Sulfide		_	?
日 京 88	10.0 ppm 15.0 ppm 15.0 ppm 16	VAALARM		
		RESTORE DEFAULTS UNDO CHANGES SAVE		5 FILE

Note: Honeywell recommends to bump test the sensors before each day's use to confirm their ability and response to gas by exposing the detector to a gas concentration that exceeds the high alarm setpoints. Verify that the audible and visual alarms activate. Calibrate if the readings are not within the specified limits.

Define how often a bump test must be performed for each sensor in the Bump Interval (days) field. A different bump interval can be set for each sensor.

- 1. Enter the value (1-365 days) for each sensor.
- 2. Enter 0 to disable the bump interval option. Entering 0 automatically deactivates the Force Bump user option.

The detector is shipped with the Force Interval option disabled.

Calibration Interval

🕃 Safety Suite De	vice Configurator	-	٥
Safety	H2S - Hydrogen Sulfide	×	?
日 京 8	Isable Sensor Image: Auto-zero on Startup Low Alarm Acknowledge Extra Resolution Low Alarm Acknowledge STEL ALARM ppm 150 100 ppm 150 ppm 100 13-200 ppm 13-200 ppm 1-200 ppm 1-200 ppm 1-200 ppm 1-200 ppm 1-200 ppm 1-200 ppm 1-1999 ppm 1-199 ppm 1-200 ppm		
	RESTORE DEFAULTS UNDO CHANGES SAVE		S FILE

Define how often a sensor must be calibrated in the Calibration Interval (days) field. A different calibration interval can be set for each sensor. The detector is shipped with the factory default set to 180 days.

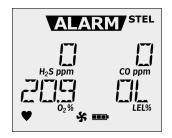
- 1. Enter the value (0-365 days) for each sensor.
- 2. Enter 0 to disable the calibration interval option. Entering 0 automatically deactivates the Force Calibration user option.



Follow all safety procedures as defined by your employer.

Disable Sensor	Auto-zero on	Startup	Low A	larm Acknowle	dge	Extra Resolu	ution			
Alarm Setpoints										
LOW ALARM 10.0	ppm HIGH	ALARM	ppm	STEL AL 15.0		ppm	TWA ALARM 10.0	ppm		
1.5-200 ppm Low Alarm should be less equal to High Alarm	1.5-200 han or	opm		1-200 ppm			1-200 ppm			
0 20 40	60 80	100	120	140 1	.60 180	200				
-00										
							Intervals			
Calibration							- BUMP TEST -		CALIBRATION	
CALIBRATION GAS - 25.0	ppm						0	days	180	days
10-199.9 ppm	ppm						0-365 days		0-365 days	
							15	mins		
							5-15 mins TWA PERIOD			
							8	hours		
							4-16 hours			

The STEL Interval option provides protection for workers from over exposure to high concentrations of gas, and is based on user-defined 5-15 minute intervals. When the maximum STEL is reached, the detector alarms to notify the worker to leave the area immediately.



Enter the interval (5-15 minutes) in the STEL Interval (minutes) field. The detector is shipped with the STEL interval set to 15 minutes.

TWA Period (hours)

H2S - Hydrogen Sulfi	ide						×
 Disable Sensor Auto 	o-zero on Startup 🗌 Lo	w Alarm Acknowledge 🛛 Extra	Resolution				
Alarm Setpoints	HIGH ALARM	STEL ALARM	TWAALARM				
10.0 ppm	15.0 ppn		(10.0 ppm	$\mathbf{)}$			
1.5-200 ppm Low Alarm should be less than or	1.5-200 ppm	1-200 ppm	1-200 ppm				
equal to High Alarm							
0 20 40 60	80 100 120	140 160 180 2	200				
Calibration			Intervals				
CALIBRATION GAS			BUMP TEST		ALIBRATION		
						days	
					65 days		
25.0 ppm			0-365 days	0-3			
			STEL	0-3 mins			
25.0 ppm			STEL				
25.0 ppm			STEL 15 5-15 mins TWA PERIOD	mins			
25.0 ppm			STEL 15 5-15 mins TWA PERIOD				
25.0 ppm			STEL 15 5-15 mins TWA PERIOD	mins			

Note: Regulations vary depending upon region. Adhere to the regulations defined for your area.

The TWA Period (hours) option defines a time-weighted moving average of accumulated gases over a period of 4-16 hours, to ensure the worker leaves an area when the defined maximum average is accumulated.

Example: The TWA Period option is set to 6 hours. Therefore, the moving average accumulates over a 6-hour average. If the worker is in the field longer, the oldest accumulated values (first hour) are replaced by the newest values (seventh hour). This continues for the duration of the work shift until the detector is deactivated.

Enter a value ranging from 4-16 hours. The detector is shipped with the default setting of 8 hours.

20.8 Base Reading

😂 Safety Suite	Device Configurator								-	ø ×
Safety	Suite Device Con	figurator					iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Ģ	8	?
日 同 88	BACK TO DEVICE LIST Details Senso H2S - Hydrogen 3 Alarm Setpoints	ors Settings	002 Bur	767 GasslertMax XT 02 - Oxygen		K ibles Calibra	tion Bur	np Test		
	HIGH & LABM 150 ppm 100 ppm 100 ppm TWA LABM 100 ppm STEL & ABM 150 ppm	Inerina INTERVAL 180 days SPAN LEVEL 25.0 ppm STEL 15 mins	Net INTE O da	Image: Name Sector Answer sector Laber Sector 205 (SL)M US9 (SL)M 20 (SL)M Calibration 0 L00 WWL L01 (SL)M WWL	Intervals D. 0.07 FE37 days 0-363 days 0-363 days 0-363 days	SPALE 10. NTEPA	Nect I INTE I O da	na RVAL		
					RESTORE DEFAULTS UNDO CHANGES SAVE					
									SAVE A	S FILE

To find this option go to the Sensors tab and click de edit \checkmark icon next to the Oxygen section. If the 20.8 Base Reading option is enabled, the detector assumes 20.8% O₂ as ambient air (factory default is 20.9% O₂).

The detector is shipped with this option disabled.

5% (of reading) Over-span

fety Suite Device Configurator Safety Suite Device Configur BACK TO DEVICE LIST		767 GasAlertMax XT					8 (
Lam New HIGH ALARM INT 15.0 ppm 180 LOW ALARM Spp 10.0 ppm 255 TWA ALARM STE	alibration Bur e Na Lave e Na Nove I TERVAL INTE 10 days 0 da NN LEVEL 10 ppm	LEL - Combustibles	L LL by Volume CPR Intervals 0-305 aps	Couldintion 200 200 200 0:000 days 0:000 days	Calibration Maria A INTERVAL 100 days SIGNI Layell SOOYHEEL	P Bump Test Liam té a MITEROL O days	
			RESTORE DEFAULTS	UNDO CHANGES SAVE]		SAVE AS F

When enabled, the detector automatically over-spans the LEL sensor by 5% of the span concentration to ensure the span meets CSA standards. After enabling this option in Safety Suite Device Configurator (SSDC), a calibration (manual or using the IntelliDoX) must be completed to fully enable this option.

LEL by Volume CH₄

🔁 Safety Suite	Device Configurator							-	ø ×
Safety	Suite Device Con	figurator					t P	8	?
0 ©	BACK TO DEVICE LIST			767 GasAlertMax XT					
88	H2S - Hydrogen S	Sulfide		LEL - Combustibles	×	ibles	1		
	Alarm Setpoints HGM #LADM 150 ppm 100 ppm TWA ALAMA 100 ppm STEL & AMM 150 ppm	Calibration Latt NA HNTERVAL 130 days SDAN LEVEL 230 ppm STEL 15 mins	Bun Lare Nee INTE Oda	Database Sension Implementation Implementation Implementation Light Address High Address Implementation Implementation Light Address High Address Implementation Implementation Set Address High Address Implementation Implementation Set Address High Address Implementation Implementation Set Address Set Address Implementation Implementation Calibration MELE Implementation Implementation SolubeL Implementation Implementation Implementation	Intervals BULY TEST days CALIBBATION CALI	Calibration Lar Ma MTENAL 180 days SSAN LEVEL SOO WLEV	Bump Test Lan Nă NTERAL NTERAL Odays		
					RESTORE DEFAULTS UNDO CHANGES SAVE				
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If enabled, the detector LCD displays the LEL value as % vol. assuming a methane environment.

If LEL by Volume CH_4 is enabled, a percentage value must be entered in the 50% LEL = (%CH4) field.

Correction Factor (%)



Ensure the calculations are correct for the applicable gas to ensure the reading display as 100% LEL.

	2767 GasslertMacXT				- 0
Details Sensors Settings H2S - Hydrogen Sulfide Sufficient Settings H2S - Hydrogen Sulfide Sufficient Settings Sufficient Set	Disable Sensor 💆 Auto-zero on Startup 📃 Low Alarm Acknowledge 📃 5% LED	LOwr Span 🔄 LEL by Volume CH4	ibles Calibration Har Lag Witt Toylog 180 days Schult Loff 600 WLEL	C Bump Test Les Ha Rate NotErolat. Odep	
		RESTORE DEFAULTS UNOO CHARRES SAVE			SAVE AS FILE

Note: Not applicable to a % by vol CH_4 measuring mode.

The Correction Factor (%) option is used to enter compensation factors for hydrocarbons other than methane. The correction factor is only applicable to LEL and can only be applied if the LEL sensor has been calibrated with methane. The detector is shipped with the factory default set to 100%.

Enter a K-factor (industry standard decimal value) in the Correction Factor (%) field. Values can range from 0.50 - 4.00.

50% LEL = (%CH₄)

Stofey Suite Device Configurator			-	ø ×
Safety Suite Device Configurator			8	?
CALIFORD TO CHARTER CALIFORD CALIFORD	bites California Microsoft NITERAL 100 days SOUTHERL SOUTHERL	Bump Test		
			SAVE A	S FILE

If the LEL By Volume CH_4 option is enabled, a percentage value can be entered in the 50% LEL = (%CH4) field to display the LEL reading in %vol. assuming a methane environment.

Enter the equivalent methane concentration for 50% LEL as follows:

- North America = 2.5%
- Europe = 2.2%

This option is only applicable to the LEL sensor.

CHAPTER



This section describes the detector alarms and corresponding screens. During an alarm condition, the detector activates the backlight, audible/visual/vibrator alarms, and displays the current ambient gas reading. If more than one type or level of alarm exists simultaneously, a multi-gas alarm results.

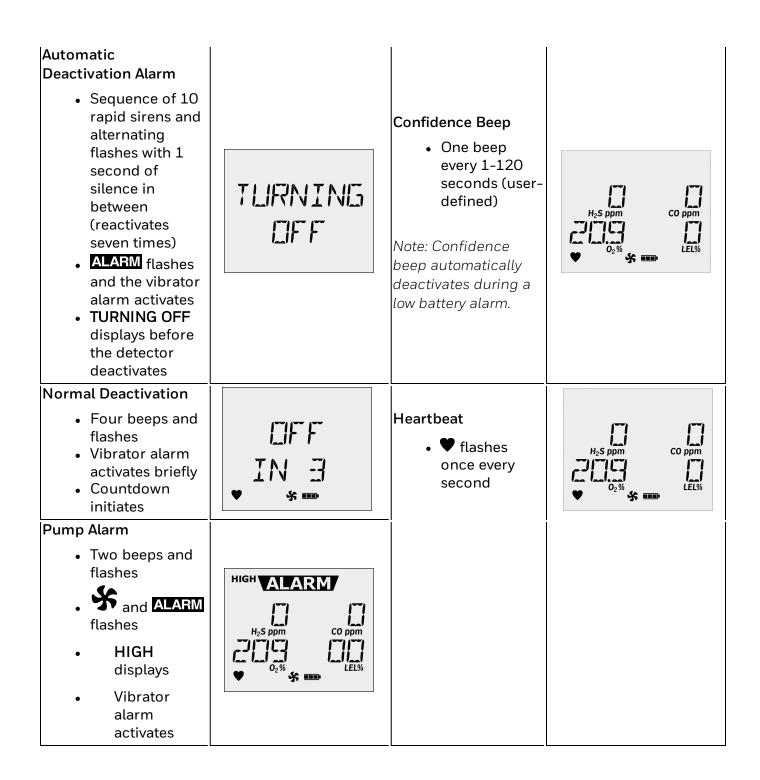
To change the factory-defined alarm setpoints, refer to Low Alarm, High Alarm, TWA Alarm, and STEL Alarm in See "Device Configuration" on page 28 for more information.

Alarm	Screen	Alarm	Screen
Low Alarm Slow siren Slow alternating flash ALARM and target gas bar flash Vibrator alarm activates 	Low ALARM H ₂ S ppm CO ppm H ₂ S ppm CO ppm CO ppm LEL%	 TWA Alarm Fast siren Fast alternating flash ALARM and target gas bar flash Vibrator alarm activates 	ALARMJ/TWA H ₂ S ppm CO ppm CO ppm CO ppm LEL% ↓ LEL%
 High Alarm Fast siren Fast alternating flash ALARM and target gas bar flash Vibrator alarm activates 	HIGH ALARM H ₂ S ppm H ₂ S ppm CO ppm CO ppm LEL%	 STEL Alarm Fast siren Fast alternating flash ALARM and target gas bar flash Vibrator alarm activates 	ALARM STEL H ₂ S ppm CO ppm CO ppm CO ppm LEL%

Note: If the **Low Alarm Acknowledge** option is enabled, the audible alarm can be disabled during a low alarm condition. The LED and visual alarm indicators remain active until the alarm condition

changes or the detector deactivates. Press \smile to acknowledge the low alarm and deactivate the audible alarm. If the alarm escalates to a high, TWA, or STEL alarm, the audible alarm reactivates.

Alarm	Screen	Alarm	Screen
 Multi-Gas Alarm Alternating low and high alarm siren and flash ALARM and target gas bar flash Vibrator alarm activates 	LOW ALARM STEL	Sensor Alarm • ERR displays	$ \underbrace{ \begin{array}{c} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \end{array} }_{LEL\%} \\ \underbrace{ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \end{array} }_{LEL\%} \\ \underbrace{ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$
Over Limit (OL) Alarm • Fast siren and alternating flash • ALARM and target gas bar flash • Vibrator alarm activates	KALARM STEL H₂S ppm C O ppm	Low Battery Alarm • Sequence of 10 rapid sirens and alternating flashes with 7 seconds of silence in between (continues for 10 minutes) • and ALARM flashes • LOW BATTERY displays and the vibrator alarm activates • After 10 minutes, a sequence of 10 rapid sirens and alternating flashes with 1 second of silence in between (reactivates seven times) • TURNING OFF displays before the detector deactivates	KALARMY LCW BFATTEF?Y ∍



Note: If enabled, during an alarm condition the **Latched Alarms** option causes the low and high gas alarms (audible, visual, and vibrator) to persist until the alarm is acknowledged (by pressing

) and the gas concentration is below the low alarm setpoint. The LCD displays the peak concentration until the alarm condition no longer exists. Enable/disable **Latching Alarms** in Safety Suite Device Configurator (SSDC). Local regulations may require **Latching Alarms** be enabled.

Gas Alarms

Delete this text and replace it with your own content.

Gas Alarm Setpoints

The alarm setpoints trigger the gas alarms and are described in this section.

Alarm	Condition
Low alarm	Toxics and combustibles: Ambient gas level above low alarm setpoint. Oxygen: Ambient gas level may be set above or below 20.9% (or 20.8%).
High alarm	Toxics and combustibles: Ambient gas level above high alarm setpoint. Oxygen: Ambient gas level may be set above or below 20.9% (or 20.8%).
TWA alarm	Toxic only: Accumulated value above the TWA alarm setpoint.
STEL alarm	Toxic only: Accumulated value above the STEL alarm setpoint.
Multi-gas alarm	Two or more gas alarm conditions simultaneously.

Computed Gas Exposures



To prevent possible personal injury, do not deactivate the detector during a work shift. **TWA**, **STEL**, and **MAX** readings reset when the detector is deactivated.

Gas Exposure	Description
$(H_{2} \\)$ and	Time-weighted average (TWA) based on accumulated exposure to toxic gases averaged over a workday according to OSHA method. Default: OSHA 8 hour moving average. User-defined: 4-16 hour moving average.
STEL (H ₂ S and CO only)	Short-term exposure limit (STEL) to gas based on a 5-15 minute user-defined period.
Maximum* (peak)	Maximum (MAX) concentration encountered during work shift.

* For oxygen, it is the highest or the lowest concentration encountered.

Viewing and Clearing Gas Exposures



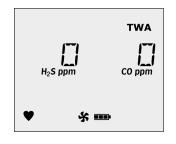
Follow all safety procedures as defined by your employer.

Deactivating the detector clears all readings. Confirm with your supervisor before clearing **TWA** and **STEL** alarms.

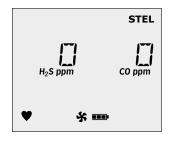
To view the TWA, STEL, and maximum (MAX) readings, press \smile displays the current time and date.

twice rapidly. The LCD first

1. The TWA gas exposures are displayed.



2. Then, the STEL gas exposures are displayed.



3. Next, the MAX readings are displayed.

4. Finally, the CLEAR ALL readings screen is displayed.

To clear the TWA, STEL, and MAX exposure readings, press \bigcirc when the following screen is displayed.



Resetting Gas Alarm Setpoints

Alarm setpoints are listed as defined by Occupational Safety and Health Association (OSHA).

Note: Standard factory alarm setpoints vary by region.

Sample Factory Alarm Setpoints						
Gas	TWA	STEL	Low	High		
02	N/A	N/A	19.5% vol.	23.5% vol.		
LEL	N/A	N/A	10% LEL	20% LEL		
СО	35 ppm	50 ppm	35 ppm	200 ppm		
H2S	10 ppm	15 ppm	10 ppm	15 ppm		

Note: To disable an alarm, set the alarm setpoint to 0 (zero) in Safety Suite Device Configurator (SSDC).

To change the factory-defined alarm setpoints, refer to See "Sensor Configuration" on page 39 for more information.

Stopping a Gas Alarm

The low and high alarms stop when the ambient gas concentrations returns to a concentration below the low alarm setpoint.

Note: If alarms are set to latch, press \bigcirc to reset the alarms.

The detector computes the TWA value based on OSHA standards and the STEL value based on a user-defined 5 to 15 minute interval. Refer to STEL Interval in See "Sensor Configuration" on page 39 for more information..

The TWA and STEL alarms can be stopped either by:

- deactivating and then reactivating the detector, or
- clearing the TWA/STEL/MAX exposure readings. Refer to See "Viewing and Clearing Gas Exposures" on page 60 for more information..



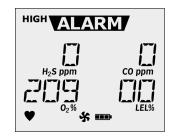
Follow all safety procedures as defined by your employer. Confirm with your supervisor before clearing TWA and STEL alarms.

Sensor Alarm

The detector tests for missing or defective sensors during the startup self-test and continuously thereafter. If a sensor fails the self-test, **Err** displays above the gas type of the failed sensor. If a sensor fails, refer to See "Troubleshooting" on page 98 for more information..

Pump Alarm

The pump draws air over the sensors continually. If the pump stops operating or becomes blocked, the detector activates the pump alarm.



During a pump alarm, HIGH and ALARM display, and S flashes.

Note: The pump alarm displays the same as a high alarm, except that flashes. Verify that a pump alarm is occurring before clearing the hose.

The pump alarm	continues until the ala	arm is acknowledged	by pressing	

- 1. Clear the blockage and press to acknowledge. If **Force Block Test** is enabled, the detector automatically launches a pump test to verify the pump is operating correctly.
- 2. If the pump test is successful, the detector returns to normal operation.

If the pump test is unsuccessful, refer to See "Troubleshooting" on page 98 for more information. for possible causes and solutions.

Low Battery Alarm

The detector tests the battery on activation and continuously thereafter. Battery power is continually displayed during normal operation. If the battery voltage is low, the detector activates the low battery alarm.



The low battery alarm continues 10 minutes. If the battery voltage drops too low, the detector activates the automatic deactivation alarm.

Automatic Deactivation Alarm

If the battery is depleted below the minimum operating voltage, a sequence of ten sirens and alternating flashes activates with 1 second of silence in between. The sequence repeats seven times. The following screens displays and the detector deactivates.



To charge the detector, refer to See "Charging the Battery" on page 88 for more information..

CHAPTER

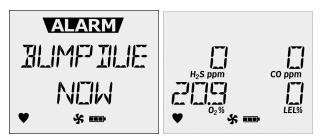
5 Bump Test

A bump test is the process of applying a small amount of test gas to force the detector into alarm.

Perform a bump test to validate that the sensors are responding correctly to gas, and that the audible and visual alarms activate during an alarm condition.

To perform a bump test, complete the following:

1. Activate the detector. A bump test can be performed either during startup when the **BUMP DUE NOW** screen displays or when in normal operation.



- 2. Attach the calibration hose (C2-HOSE1-1) to a 0.5 l/m Manual regulator (Part Number REG-0.5) or a 1 l/m Demand flow regulator (Part Number REG-DF-1)
- 3. Connect the hose quick connector to the pump quick connector on the pump inlet to apply gas.
- 4. The detector should enter alarm. Verify the audible and visual alarms activate, and that the LCD readings match the span gas concentrations of the gas cylinder being used.
- 5. Disconnect the calibration hose from the detector. The detector briefly remains in alarm until the sensors clear of the test gas.

Note: An IntelliDoX station (automated bump test) is required to log bump tests as an event. A manual bump test will not be logged as an event.

Bump Test Using the IntelliDoX Station

To perform an automated bump test, refer to the IntelliDoX User Manual.

CHAPTER



Guidelines

Recommended gas mixture: CO: 100 ppm balance N₂ H₂S: 25 ppm balance N₂ LEL: 50% LEL or 2.5% by vol. methane balance air O₂: clean air, 18%

- To ensure accurate calibration, use a premium-grade calibration gas. Gases approved by the National Institute of Standards and Technology (NIST) improve the validity of the calibration. You can use a 34 L cylinder (PN: CG-Q34-4) or a 58 L cylinder (PN: CG-Q58-4)
- Do not use a gas cylinder past its expiration date.
- Calibrate a new sensor before use. Install the sensor, activate the detector, and allow the sensor to stabilize before starting calibration or a bump test.

Used sensor: 60 seconds / new sensor: 5 minutes.

- Calibrate the detector at least once every 180 days, depending upon use and sensor exposure to poisons and contaminants.
- Calibrate the detector if the ambient gas varies during startup.
- Calibrate only in a safe area that is free of hazardous gas.
- Do not calibrate the detector during or immediately after charging is complete.
- The H₂S (PN: SR-H-MC), CO (PN: SR-M-MC), LEL (PN: unfiltered SR-W-MP75; filtered SR-W-MP75C), and O₂ (PN: SR-X2V), sensors can be automatically zeroed each time the detector is activated if the **Auto-Zero on Startup** option is enabled. Activate the detector in a normal (20.9%/20.8% O₂) atmosphere.
- If a certified calibration is required, contact BW Technologies by Honeywell.
- Calibration can be performed using either a 0.5 l/min manual regulator (PN: REG 0.5) or a demand flow regulator (PN: REG-DF-1)
- The maximum hose length for calibration is 3 ft (0.9 m).



Calibration cylinders that are used with a demand flow regulator must meet the following maximum inlet pressure specifications:

- Disposable cylinders 0-1000 psig/70 bar
- Refillable cylinders 0-3000 psig/70 bar

Honeywell recommends using premium grade calibration gases and cylinders that are certified to National Standards.

The calibration gases must meet the accuracy of the detector.

Diagnostics Protection

The detector tests the ambient air (auto-zero) and the test gas that is applied (auto span) to ensure it meets expected values. Auto-zero sets the zero-gas level of the sensor. If the target gas is present, the zero level will be incorrect.

If excessive target gas is present, the sensor(s) will fail and an error message displays.



In auto span, an error message displays if the target gas does not meet the expected values.



Sensor(s) that fail to span retain the previous span value and do not continue the calibration process.

Connecting the Gas Cylinder to the Detector

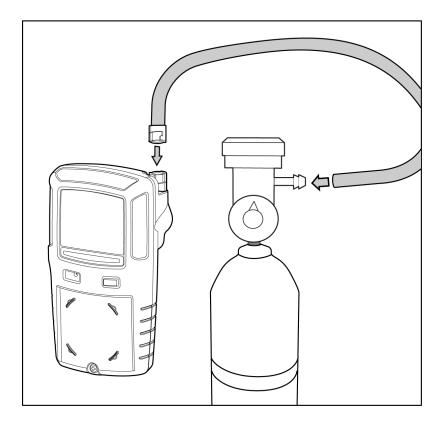
Refer to the following procedures to connect the gas cylinder to the detector for calibration.

Note: Read all of the following procedures before beginning calibration.



The maximum hose length for calibration is 0.9 m (3 ft).

- 1. Verify the calibration gas being used matches the span concentration value(s) that are set for the detector.
- 2. Attach a 0.5 l/min regulator or a demand flow regulator to the gas cylinder.
- 3. Connect the calibration hose to the regulator on the gas cylinder.
- 4. Begin the calibration procedures. Refer to the See "Calibration Procedure" on page 74 for more information. section.
- 5. When calibration is complete, disconnect the hose from the detector and the regulator.
- 6. Ensure the gas cylinder is stored according to the manufacturer's specifications.



Connecting the Gas Cylinder to the Detector

Calibration Procedure



Calibrate only in a safe area that is free of hazardous gas. Do not calibrate the detector during or immediately after charging.

Note: Calibration can be aborted at any time. To abort calibration, press \smile . The following screen displays.



To calibrate the sensor(s), complete the following:

- 1. Activate the detector.
- 2. Ensure the sensor(s) to be calibrated is enabled in Safety Suite Device Configurator (SSDC).
- 3. Verify the calibration gas being used matches the span concentration value(s) that are set for the detector.
- 4. Press and hold while the detector performs the OFF countdown.

Continue to hold

as the detector briefly deactivates.

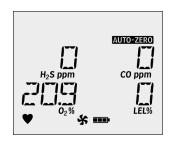


The detector then reactivates and performs the calibration countdown. Continue to hold O until the countdown is complete.
Note: If O is not held for the entire countdown, the detector will deactivate.

Auto Zero Sensor

Note: Do not apply calibration gas until **Apply Gas** displays, otherwise the auto zero function will fail.

AUTO-ZERO flashes while the detector automatically zeroes the combustible and toxic sensors, and calibrates the oxygen sensor. When auto zero is complete, the detector beeps two times.



Auto Zero Successful: If the sensor(s) successfully zeroes, the detector automatically proceeds to the See "Auto Span" on the facing page for more information. function.

Auto Zero Unsuccessful: If a sensor(s) fails auto zero, an error message and which sensor(s) failed displays.



To determine the cause and solutions for the failed sensor(s), refer to See "Troubleshooting" on page 98 for more information..

When auto zero is complete, APPLY GAS and AUTO-SPAN display, and CDPO flashes.



- 1. Connect the calibration hose to the regulator on the gas cylinder (See "Connecting the Gas Cylinder to the Detector" on page 72 for more information.).
- 2. Attach the hose quick connector to the pump quick connector to apply gas.

After 50% of the gas is detected on all sensors (within 30 seconds), **AUTO-SPAN** continues to flash while the detector completes the span (approximately 2 minutes).

Successful Span

If the sensors have successfully passed the span, the audible alarm beeps and continues with calibration. Proceed toSee "Calibration Due Date" on page 78 for more information.

Unsuccessful Span

If the sensor(s) fails the span, the following screen displays.



Refer to the following for possible causes and solutions.

The detector will not span a sensor if

- gas is not applied to the sensor,
- 50% of the expected gas concentration is not detected within the first 30 seconds, or

• the gas concentration drops below 50% of the expected gas level during the 2minute span.

If gas is applied to a sensor and the detector fails to span the sensor, perform the following:

- Repeat the calibration using a new gas cylinder.
- Repeat the calibration using a new 0.5 l/min regulator or a new demand flow regulator.
- If the sensor fails the span a second time, replace the sensor. Refer to See "Replacing a Sensor or Sensor Filter" on page 91 for more information..

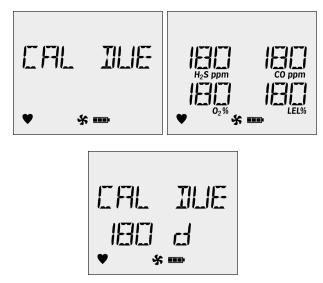
If a sensor(s) fails any step of the calibration, the following screen displays.



Note: If calibration is unsuccessful for a sensor(s), the calibration due date cannot be set for the failed sensor(s).

If a sensor(s) does not successfully span, the calibration due date for that sensor(s) will not reset.

After the span is complete, the following calibration due date screens display before returning to normal operation.

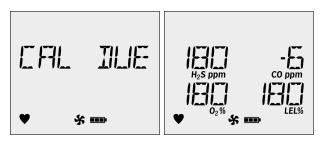


The number of days that displays in the **CAL DUE XXX DAYS** screen is the earliest date (overall of all sensors) a calibration must be performed.

Example: The H_2S sensor has the earliest date. The H_2S sensor must be calibrated in 65 days.

$$\begin{array}{c} \underset{H_2S \text{ ppm}}{\text{EG}} & \underset{CO \text{ ppm}}{\text{EG}} & \underset{LEL\%}{\text{EG}} & \underset{K}{\text{EG}} & \underset{LEL\%}{\text{EG}} & \underset{K}{\text{EG}} & \underset{K}{\text{EG}$$

If a sensor fails to span successfully and it is past the calibration due date, the following screens display.





The example above shows the CO sensor is 6 days past due.

Press to acknowledge the warning before returning to normal operation. Refer to See "Troubleshooting" on page 98 for more information. and calibrate the failed sensor again.

Verification

- 1. After calibration is complete and the detector returns to normal operation, verify the calibration using a gas cylinder other than the one used for calibration.
- 2. The gas concentration should not exceed the sensor's detection range. Confirm that the LCD shows the expected concentration values.
- 3. To ensure the readings are accurate, apply the verification gas for the same amount of time as was applied to the sensor when it was calibrated.

Example: H_2S span time 2 minutes therefore, apply verification gas for 2 minutes.

Calibrating Using the IR Link

If the **Cal IR** option is enabled, the sensors must be calibrated using either the IR Link or IntelliDoXstation.



Calibration can be performed during the startup tests when CAL DUE NOW displays, or when the detector is in normal operation. To calibrate using the IR Link, complete the following:

- 1. Turn on the device.
- 2. From the PC, open Safety Suite Device Configurator (SSDC).
- 3. Login entering the username (administrator) and the password (Default123) and click LOG IN.

The system will perform an automatic Startup Scan

- 4. From the Device List View tab, select the Detector by clicking on the checkbox next to the device.
- 5. From the top options, select Start Bump/Cal

	e Device Confi	gurator										to Iç		8
Device	List View	Templates	Data	Down	nload Scheduler	Custom Field	ls							
6 dev	ices shown						O Update Firmware	👍 Download Dat 🤇	역 Start Bump/Cal 영 Set Paramete	ers 🕼 Event Logs 🕼 Bump/Cal	Results 📳 Datalogs 🛃	Export Datalogs 🛄 Co	umns I	0
Filter by		Clear All	Statu	Activ	e ×						Search In	telliDoX IPs See	rch Aut	- P
CONNER	TION	Clear	_	_										
Con	nected	°°			RML NUMBER	FIRMWARE VERSION	DEVICE TYPE	MODEL NUMBER	ASSIGNED WORKER LOCATION	LAST SUCCESSFUL CAL	IBRATIOI LAST SUCCESSFUL B	UMP LAST DOWNLOAD	MIE/LC I	ЗEV
Not	Connected	22		_	MA221-002767	V13.000	GasAlertMax XT	GasAlertMax XT		-	-	-		Act
					021006284	-	AutoRAE 2 Controlli			-	-	06/04/2021		Act
~ DEVICE		Clear		63 M	103170094911	-	MicroRAE	PGM-2602		-	-	06/04/2021		Ad
Act/					101CA13953	-	MultiRAE Lite	PGM-6208		05/13/2021	05/13/2021	06/04/2021		Ad
Inec				83 I	023006640	-	MultiRAE (Pumped)			-	-	-		Ad
Out Out	for Service			63 TC	027000020	-	MicroRAE Gradle	DKS-6005			-	-		Ad
Arch	ived													
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 DEVICE 		Clear												
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6. The Start Bump/Cal Test box displays.

- 7. Enter the span gas concentration values. The values entered in the Calibrate Device popup must match the span concentration values on the gas cylinder.
- 8. Click inside the checkbox for each sensor that will be calibrated, and then click Start Test.
- 9. Refer to See "Auto Span" on page 76 for more information. to complete calibration.

Note: To calibrate using the IntelliDoX, refer to the IntelliDoX User Manual and the Safety Suite Device Configurator (SSDC) Operator's Manual.

Event Logs

The detector records the thirty most recent gas alarm events. Information that is recorded from an event is as follows:

- Serial number of the detector
- Start time of alarm
- Type, level, and duration of alarm
- Status of sensor
- Peak exposure level (ppm or %)
- Status of the detector
- Detector user
- Supervisor
- Location
- Definables (employee information)

Datalogs

The detector records datalog samples that can be compiled to create a report using Safety Suite Device Configurator (SSDC). From Safety Suite Device Configurator (SSDC), define how often the detector records a datalog sample (1-120 seconds) in the Datalog Interval (seconds) field.

The detector is capable of storing 6 hours to 5 years of information, depending upon the datalog interval and what information is stored. When the memory is full, the detector replaces the oldest datalogs with the most recent datalogs.

The following information is recorded in a datalog:

- Serial number of the detector
- Date and time
- Type of datalog
- Detector status
- Detector user
- Type of gases the detector monitors
- Gas readings
- STEL and TWA readings (H₂S and CO only)
- Alarm setpoints
- Options enabled/disabled
- Sensor status
- Pump status
- Logging intervals
- Language detector is set to display
- Calibrations performed
- Bump tests performed
- Battery readings
- Temperature readings

Bump and Calibration Results

The detector records the bump test and calibration results. The results can then be imported into Fleet Manager II to create detailed reports. The following information is recorded in the Bump/Calibration datalogs:

- Date/time bump tests and calibrations were performed
- Serial number of the detector
- Test performed
- Test results
- Detector user
- Supervisor
- Detector status
- Detector configuration updated during bump test/calibration
- Type of detector
- Location detector was used
- IntelliDoX serial number
- IntelliDoX location
- Last calibration performed
- Next calibration due date
- Last bump test performed
- Next bump test due date
- Datalog interval
- STEL period
- Pump enabled/disabled
- Audible and visual indicator status
- Sensor type and sensor status
- Alarm status
- Sensor status
- Inlet(s) used
- Definables (employee information)

Downloading Datalogs and Event Logs

The datalog and event log files can only be downloaded to a PC using the IR Link or the IntelliDoX Station. Refer to the Safety Suite Device Configurator (SSDC) Operator's Manual.

Software Requirements

Safety Suite Device Configurator (SSDC) and Excel software are required to create spreadsheet reports of the event logs, datalogs, and bump and calibration results.

CHAPTER

8 Maintenance

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

- Calibrate, bump test, and inspect the detector at regular intervals.
- Maintain an operations log of all maintenance, bump tests, calibrations, and alarm events.
- Clean the exterior with a soft damp cloth. Do not use solvents, soaps, or polishes.
- Do not immerse the detector in liquids.

Maximum Hose Length for Sampling

The maximum hose length for sampling is 75 ft (22m).

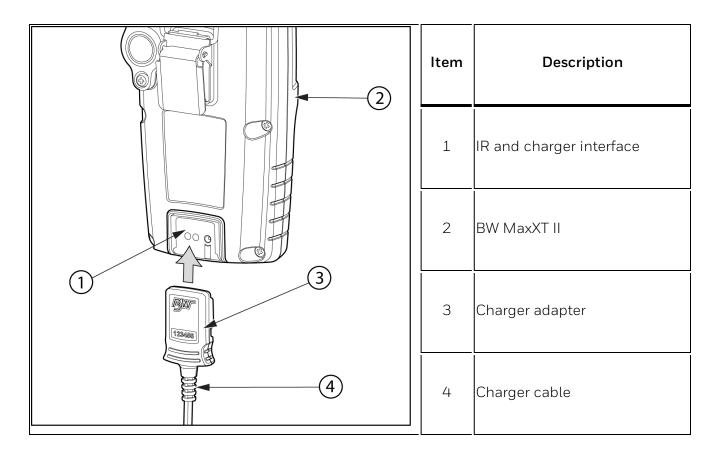
Battery Maintenance and Cautions



To avoid personal injury and/or property damage, adhere to the following:

- The detector must be deactivated to charge the battery.
- Charge the battery immediately when the detector emits a low battery alarm. Refer to See "Charging the Battery" on the facing page for more information..
- Charge the battery using the BW MaxXT II or the GasAlertMicroClip charger adapter only. Do not use any other charger adapters. Failure to adhere to this precaution can lead to fire and/or explosion.
- Do not calibrate the detector during or immediately after charging the battery.
- *Warning:* The BW MaxXT II uses a lithium battery (MX-BAT01) that may present a risk of fire or chemical burn hazard if misused. Do not disassemble, heat above 212° (100°C), or incinerate.
- *Warning:* Lithium polymer cells exposed to heat at 266°F (130°C) for 10 minutes can cause fire and/or explosion.
- If replacing the battery, use only approved lithium polymer cells that are available through BW Technologies by Honeywell. Use of any other cell can cause fire and/or explosion. To order and replace the MX-BAT01 lithium battery, refer to See "Replacement Parts and Accessories" on page 102 for more information..
- Replace the battery only in a safe area that is free of hazardous gas.
- Dispose of used lithium cells immediately. Do not disassemble and do not dispose of in fire. Do not mix with the solid waste stream. Spent batteries must be disposed of by a qualified recycler or hazardous materials handler.
- Keep lithium cells away from children.

Charging the Battery



Connecting the Charger Adapter



The detector must be charged in a safe area that is free of hazardous gas in temperatures of 32° F to 113° F (0°C to 45° C).



To charge the battery, refer to the previous table and the following procedures:

- 1. Deactivate the detector.
- 2. Plug the charger into a AC outlet.
- 3. Attach the charging adapter to the charger interface.
- 4. Allow the battery to charge for 6 hours. The charging indicator flashes (low, mid, and full charge repeatedly) on the LCD while the battery is charging.

low mid full

5. When charging is complete, the charging indicator stops flashing and displays

LEEP to indicate a full charge. Remove the adapter and activate the detector.

If the battery indicator does not display, refer to See "Troubleshooting" on page 98 for more information..

Note: To preserve the life of the battery, deactivate the detector when not in use.

Note: The detector may be warm immediately after charging. This is normal.

Optimum Battery Operation

To ensure maximum use of the battery, perform the following:

- To obtain full operating capacity, allow the battery to fully charge and discharge three times.
- To achieve the maximum number of charges, ensure the battery is charged between 32°F and 113°F (0°C and 45°C). Do not charge the battery in temperatures above 113°F (45°C).

Replacing the Battery

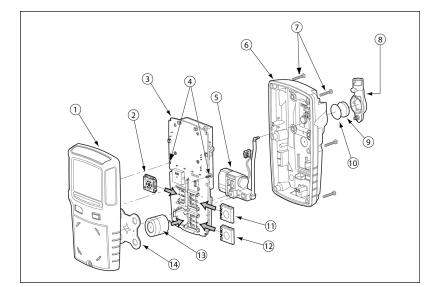
To replace the lithium battery, refer to See "Replacement Parts and Accessories" on page 102 for more information. to order the (XT-BAT-K1) kit that includes the Replacing the BW MaxXT II Battery Operator's Manual.

Replacing a Sensor or Sensor Filter



To avoid personal injury and/or property damage, use only sensors that are specifically designed for the detector. Refer to See "Replacement Parts and Accessories" on page 102 for more information..

- Each sensor has a high degree of resistance to common vapors and gases. To clear a sensor, move the detector to a clean environment and wait 10 to 30 minutes.
- Do not expose a sensor to vapors from inorganic solvents such as fumes from paint thinners, or organic solvents such as benzoic acids and acrylic acids).



Replacing a Sensor or Sensor Filter

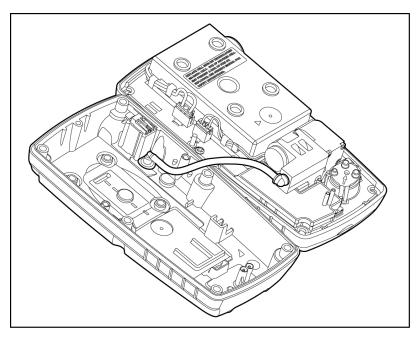
ltem	Description
1	Front shell
2	LEL sensor
3	РСВ
4	PCB screws (2)
5	Pump
6	Rear shell

7	Machine screws (6)
8	Pump inlet
9	Pump filter (particulate)
10	Moisture filter
11	CO sensor
12	H ₂ S sensor
13	O ₂ sensor
14	Sensor filter

To replace a sensor or sensor filter, refer to the following procedures.

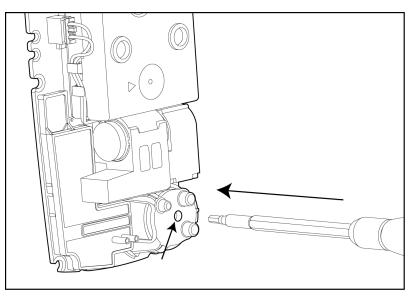
Note: Detectors that are configured for 1, 2, or 3 gases may contain a dummy sensor in one of the four sensor locations.

- 1. Deactivate the detector.
- 2. Remove the pump inlet screw and the pump inlet. Refer to See "Replacing the Pump Filters" on page 94 for more information..
- 3. Remove the six machine screws from the rear shell.
- 4. Because the pump hose is connected to the rear shell and front shell pump, carefully remove the rear shell by lifting upward and tilting to the left. The front and rear shells are laying flat side by side.



- 5. Remove the two PCB screws.
- 6. Lift the PCB upward and tilt to the left. Lay the PCB (sensors facing up) onto the rear shell.
- 7. For CO, H_2S , and LEL sensors, slide outward to remove.

To remove the O_2 sensor gently insert a screwdriver to the back of the oxygen sensor to push out the sensor.



- 8. Insert the new sensor(s).
- 9. If required, replace the sensor filter.

Note: When inserting a new sensor filter, ensure the white side is facing the sensors and the black side is facing the front shell.

- 10. Replace the particulate and/or moisture filter if required. Refer to See "Replacing the Pump Filters" on the facing page for more information..
- 11. Re-assemble the detector and replace the PCB screws.
- 12. Replace the machine screws using 3-4 in-lbs. torque. Tighten the screws using a crisscross pattern to ensure a proper seal.
- 13. Replace the pump inlet and the pump inlet screw.
- 14. Activate the detector and calibrate the sensor(s). Refer to See "Calibration" on page 70 for more information..

Replacing the Pump Filters

Filters are inserted into the pump inlet to prevent dust particulates and moisture from entering the pump module.

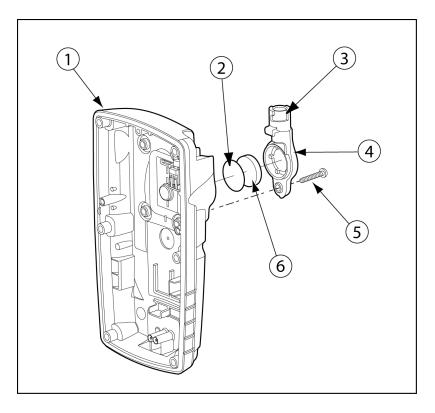
Particulate Filters

The particulate filter will require frequent changes if the detector is being used in heavy particulate areas. If a pump alarm occurs and there is no blockage in the tubing, replace the particulate filter.

Moisture Filters

The moisture filter will not typically require frequent changes. If moisture is drawn through the tubing, replace both the moisture filter and the particulate filter immediately.

To change the particulate or the moisture filter, refer to the following information.



Item	Description
1	Rear shell
2	Moisture filter
3	Pump quick connector
4	Pump inlet
5	Machine screw (1)
6	Particulate filter

- 1. Remove the one machine screw from the pump inlet and gently lift the bottom of the inlet outward at a 45° angle.
- 2. Gently lift the pump inlet upwards to remove. Ensure the hook on the pump inlet clears the housing.

The particulate filter is located inside the pump inlet and the moisture filter is located on the rear shell.

- 3. Depending upon the circumstance, replace either just the particulate filter or both. Refer to Particulate Filters and Moisture Filters in this section.
- 4. Reattach the pump inlet and replace the screw. Tighten the screw using 3-4 in-lbs. torque. Do not overtighten.

5. Activate the detector to begin the startup test and the pump block test. Depending upon the result, one of the following screens display.



Successful: If the block test is successful, the detector completes the startup test and enters normal operation.

Unsuccessful: If the block test is unsuccessful, the detector deactivates. For causes and possible solutions, refer to See "Troubleshooting" on page 98 for more information..

Replacing the Pump

To obtain a new pump (XT-RPUMP-K1) and the Pump Replacement Operator's Manual, refer to See "Replacement Parts and Accessories" on page 102 for more information..

CHAPTER

9 Troubleshooting

If a problem occurs, refer to the solutions provided in this section. If the problem persists, contact BW Technologies by Honeywell.

Problem	Possible Cause	Solution	
The detector does not activate.	Depleted battery	Charge the battery. Refer to See "Charging the Battery" on page 88 for more information	
	Damaged or defective detector	Contact BW Technologies by Honeywell	
Detector automatically	Automatic deactivation due to depleted battery	Charge the battery. Refer to See "Charging the Battery" on page 88 for more information	
deactivates.	Lockout on Self-Test Error is enabled and a sensor(s) has failed the startup self-test	Refer to See "Device Configuration" on page 28 for more information. and See "Replacing a Sensor or Sensor Filter" on page 91 for more information	
	Sensor needs to stabilize	Used sensor: Wait 60 seconds New sensor: Wait 5 minutes	
	Low battery alarm	Charge the battery. Refer to See "Charging the Battery" on page 88 for more information	
The detector enters alarm immediately when activated.	Sensor(s) requires calibration	Calibrate the sensor(s). Refer to See "Calibration" on page 70 for more information	
	Hazardous environment	Leave the area immediately. Deactivate and reactivate the detector in a safe area that is free of hazardous gas.	
	General fault	Contact BW Technologies by Honeywell	
The activation startup self- test fails.	Sensor error	Replace the sensor. Refer to See "Replacing a Sensor or Sensor Filter" on page 91 for more information	
Detector does not display normal ambient gas reading	Sensors not stabilized	Used sensor: Wait 60 seconds New sensor: Wait 5 minutes	
after startup tests.	Sensor(s) requires	Calibrate the sensor(s). Refer to See	

	calibration	"Calibration" on page 70 for more information		
	Target gas is present	Detector is operating properly. Use caution in suspect areas.		
Detector does not respond	Battery is depleted	Charge the battery. Refer to See "Charging the Battery" on page 88 for more information		
to button.	Detector is performing operations that do not require user input	Button operation restores automatically when the operation ends.		
	Sensor(s) requires calibration	Calibrate the sensor(s). Refer to See "Calibration" on page 70 for more information		
Detector does not accurately measure gas.	Detector is colder/hotter than gas temperature	Allow the detector to attain ambient temperature before use.		
	Sensor filter is blocked	Replace the sensor filter. Refer to See "Replacing a Sensor or Sensor Filter" on page 91 for more information		
	Alarm setpoint(s) are set incorrectly	Reset the alarm setpoints. Refer to See "Resetting Gas Alarm Setpoints" on page 62 for more information		
Detector does not enter alarm.	Alarm setpoint(s) set to zero	Reset the alarm setpoints. Refer to See "Resetting Gas Alarm Setpoints" on page 62 for more information		
	Detector is in calibration mode	Complete the calibration procedure.		
	Ambient gas levels are near alarm setpoint or the sensor is exposed to a puff of the target gas	Detector is operating normally. Use caution in suspect areas. Check maximum gas exposure reading.		
Detector intermittently enters alarm without reason.	Alarms are set incorrectly	Reset the alarm setpoints. Refer to See "Resetting Gas Alarm Setpoints" on page 62 for more information		
alarm without reason.	Sensor(s) requires calibration	Calibrate the sensor(s). Refer to See "Calibration" on page 70 for more information		
	Missing or faulty sensor(s)	Reset the alarm sensor(s). Refer to See "Resetting Gas Alarm Setpoints" on page 62 for more information		
Battery has been charging for 6 hours. Charging indicator on LCD shows the battery is still charging.	Battery is trickle charging	Battery is fully charged and is ready for operation.		

Battery indicator does not display when charging.	Battery is depleted below normal levels	Charge the battery for 8 hours. If the battery indicator does not light after charging, contact BW Technologies by Honeywell.	
	Diffusion cap is off or not attached correctly.	Attach diffusion cap. Ensure seal is tight.	
Pump is not operating.	There is a blockage in the tubing.	Clear the blockage.	
	Particulate and/or moisture filter requires replacement	Replace the filter(s). See "Replacing the Pump Filters" on page 94 for more information.	
Features and options not operating as expected.	Changes in Safety Suite Device Configurator (SSDC)	Verify that the settings in Safety Suite Device Configurator (SSDC) are correct.	

10 Replacement Parts and Accessories



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

To order parts or accessories listed in the following table, contact BW Technologies by Honeywell.

Replacement Parts and Accessories				
Model No.	Description	Qty		
SR-WMC75C	Combustible (LEL) sensor	1		
SR-X10-C1	Oxygen (O ₂) sensor	1		
SR-M-MC	Carbon monoxide (CO) sensor	1		
SR-H-MC	Hydrogen sulfide (H ₂ S) sensor	1		
REG-DF-1	Demand flow regulator	1		
REG-0.5	0.5 l/min regulator	1		
CG-Q58-4	Quad gas cylinder: CH ₄ -2.5%, O ₂ -18.0%, H ₂ S- 25 ppm, CO-100 ppm, bal. N ₂ (58 l)	1		
CG-Q34-4	Quad gas cylinder: CH ₄ -2.5%, O ₂ -18.0%, H ₂ S- 25 ppm, CO-100 ppm, bal. N ₂ (34 l)	1		
CG-T34	Dual gas cylinder: 50% LEL (CH ₄ -2.5%) O ₂ - 20.9%, bal. N ₂ (34 l)	1		
G0042-H25	Single gas cylinder: H ₂ S 25 ppm, bal. N ₂ (58 l)	1		
CG2-M-200- 103	Single gas cylinder: CO 200 ppm, bal N ₂ (103 l)	1		
CG-BUMP1	Bump alarm gas aerosol (CH ₄ -2.5%, O ₂ -10%, H ₂ S-40 ppm, CO-200 ppm)	1		
CK-Q34-4	Quad calibration kit with regulator, quad gas cylinder (CG-Q34-4), hose, and carrying case	1		
CK-Q58-4	Quad calibration kit with regulator, quad gas cylinder (CG-Q58-4), hose, and carrying case	1		
XT-SS-1	Sensor filter for BW MaxXT II, Kit of 2	2		

GA-PFMAX	Particulate filters (kit of 5)	5
GA-PFMAX- 50	Particulate filters (kit of 50)	
GA-PFMAX- 100	Particulate tilters (kit of 1()())	
XT-RF-H5	Hydrophobic (moisture) filters (kit of 5)	5
XT-RF-H50	Hydrophobic (moisture) filters (kit of 50)	50
XT-C01-MC5	BW MaxXT II multi-unit charger	1
GA-PA-1*	Charging adapter	1
DX-MAXXT	BW MaxXT II docking module (for use w/ IntelliDoX) and charging cable	1
GA-USB1-IR	IR connectivity kit (includes USB cable)	1
XT-SCREWK1	Replacement screw kit (40 screws and screwdriver)	1
XT-BAT-K1	Battery replacement kit	1
XT- RPUMPK1	Pump replacement kit	1
GA-HXT	BW MaxXT II carrying holster	1
GA-BXT	BW MaxXT II rubber boot	1
XT-AG-1	Alligator clip (stainless steel)	1

*Add suffix (-UK) for United Kingdom mains plug, (-EU) for European mains plug, (-AU) for Australian mains plug.

CHAPTER

11 Specifications

Instrument dimensions: 13.1 x 7.0 x 5.2 cm (5.1 x 2.8 x 2.0 in.)

Weight: 328 g (11.6 oz.)

Operating temperature: -20°C to +50°C (-4°F to +122°F)

Storage temperature: -40°C to +60°C (-40°F to +140°F)

Operating humidity: 10% to 100% relative humidity (non-condensing)

Dust and moisture ingress: IP66/67

Alarm setpoints: May vary by region and are user-defined

Detection range:

 $H_2S: 0 - 200 \text{ ppm} (1 \text{ ppm increments})$

CO: 0 – 1000 ppm (1 ppm increments)

O₂: 0 – 30.0% vol. (0.1% vol. increments)

LEL (combustible): 0 – 100% LEL (1% LEL increments) or 0 – 5.0% v/v methane

Sensor type:

H₂S, CO, O₂: Single plug-in electrochemical cell

LEL (combustibles): Plug-in catalytic bead

O2 measuring principle: Capillary controlled concentration sensor

Alarm conditions: TWA alarm, STEL alarm, low alarm, high alarm, multi-gas alarm, over limit (OL) alarm, low battery alarm, confidence beep, automatic deactivation alarm, pump alarm

Audible alarm: 95 dB+ at 30 cm variable pulsed beeper with full battery charge

Visual alarm: Red light-emitting diodes (LEDs)

Display: Alphanumeric liquid crystal display (LCD)

Backlight: Activates upon startup and when the button is pressed; deactivates after 10 seconds. Activates during an alarm condition and remains lit until alarm ceases

Self-test: Initiated during activation, self-test runs continuously while detector is operational

Calibration: Automatic zero and automatic span

User field options: Startup message, lockout on self-test error, safe mode, confidence beep, latching alarm, force calibration, cal IR lock, force bump, location logging, force block test, set datalog interval, set confidence interval, language selection.

Sensor options: Sensor enable/disable, set span concentration values, set calibration interval, set bump interval, set alarm setpoints, set STEL interval, set TWA period, auto zero at startup enable/disable, 5% overspan, low alarm acknowledge, oxygen measurement, and combustible gas measurement

Maximum hose length for sampling: 75 ft (22 m)

Maximum hose length for calibration: 3 ft (0.9 m)

Battery operating time: One rechargeable lithium polymer battery at 20°C provides 13 hours operating runtime

Year of manufacture: The detector's year of manufacture is determined from the serial number. The first and second number after the first two letters determines the year of manufacture.

Example: MA110-001000 = 2010 year of manufacture

Approved battery for GasAlertMaxXT II product:

Lithium-ion polymer (MA-BAT01) as per standards EN 60079-,UL913, CSA C22.2 No. 157

Rechargeable battery	(MX-BAT01)	Temperature Code
Lithium Polymer	-20°C ≤ Ta ≤ +50°C	T4

Battery charger: Honeywell BW™ MaxXT II Charging Adapter

First-time charge: 6 hours

Normal charge: 6 hours

Warranty: 2 years including sensors

Approvals

Approved by CSA to both U.S. and Canadian Standards CAN/CSA C22.2 No. 157 and C22.2 152 ANS/UL – 913 and ANSI/ISA – S12.13 Part 1 Class L Division 1, Group A, B, C, and D,

CJA	Class I, DIVISION I, GIOUP A, D, C, and D
ATEX	CE 0539 (EX) II 1 G Ex da ia IIC T4 Ga KEMA 08 ATEX 0001 EN 60079-0, EN 60079-1, EN 60079-11
IECEx	Ex da ia IIC T4 Ga CSA 07.0012 IEC 60079-0, IEC 60079-1, IEC 60079-11
INMETRO	Ex da ia IIC T4 Ga DNV 12.0135
KYL	12-KB4BO-0054 ^a
UKCA	21UKEX0050
IP	IP66/IP67

a. http://www.honeywellanalytics.com/~/media/honeywell-analytics/products/gasalertmaxxtii/documents/certifications/koreanexcertificate_bw_gamaxxtii_12kb4bo0054.pdf?la=en This equipment has been tested and found to comply with the limits for a Class B 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 in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



This symbol indicates that the product must not be disposed of as general industrial or domestic waste. This product should be disposed of through suitable WEEE disposal facilities. For more information about disposal of this product, contact your local authority, distributor or the manufacturer.

General Datalogger Specifications

Storage: 375 hours at 15-second intervals (75% redundancy)

Memory type: Wraparound memory ensures most recent data is always saved

Sample rate: One reading every 1-120 seconds

Data recorded: All sensor readings, all alarm conditions, calibrations, event flags, battery status, sensor status, pump status, confidence beep activation, and detector status along with the time and date for each reading and unit serial number

Operation: Requires no user intervention (automatic)

Compatible with: Desktop PC computer or laptop

Operating system: Windows XP and Windows Vista

Download via: IR device (IR Link adapter or IntelliDoX)

Software required: Safety Suite Device Configurator (SSDC) and Microsoft Excel



Authorized Distributor the only one in Thailand for Spare Parts, After Sales, and ISO 17025 Calibration Laboratory Standard

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Honeywell

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