TELEDYNE
GAS MEASUREMENT INSTRUMENTS
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User Manual

PROTÉGÉ ZM

PORTABLE, ZERO-MAINTENANCE, SINGLE-GAS MONITOR

087-0047 Revision H

WARNING : ALL INDIVIDUALS WHO, HAVE OR WILL HAVE, RESPONSIBILITY FOR USING, MAINTAINING, OR SERVICING THIS PRODUCT, MUST READ THIS ENTIRE MANUAL CAREFULLY. FAILURE TO USE THIS EQUIPMENT PROPERLY COULD RESULT IN SERIOUS INJURY OR DEATH.

LEGAL STATEMENT

DESCRIPTION

This User Guide provides information for use only with the Protégé ZM Portable Gas Monitor (or "the monitor").

LIABILITY

Every care has been taken in the preparation of this user guide, but the Company does not accept any responsibility for errors or omissions and their consequences. Information in this user guide is subject to change without notice. This user guide does not constitute a specification or basis for a contract.

MODIFICATION NOTICES

The Company aims to notify customers of relevant changes in the product operation and maintain this user guide up to date. Due to continuous product improvement, there may be operational differences between the latest product and this user guide.

This User Guide is an important part of the monitor, and it should be referred to for the life of the product.

SOFTWARE

Any software supplied must only be used in this product and may not be copied without the written permission of the Company. Reproduction or disassembly of such embodied programs or algorithms is prohibited. Ownership of such software is not transferable, and the Company does not warrant that the operation of the software will be error free or that the software will meet the customer's requirements.

DISPOSAL ADVICE

Dispose of the monitor carefully and with respect for the environment. If returned, the Company will dispose of the monitor without charge.

AREAS OF USE

Exposure to certain chemicals can result in a loss of sensitivity of the flammable sensor. Where such environments are known or suspected, it is recommended that more frequent response checks are carried out.

Environmental factors may affect sensor readings. This includes changes in pressure, humidity and temperature. Note that both pressure and humidity changes can also affect the amount of oxygen present in the atmosphere.

Exposure to silicones, high levels of H_2S and other sulfur-containing compounds, phosphates, and refrigerant gases (Freon) may contaminate, poison, or inhibit the sensor.

Do not use the monitor in a potentially hazardous atmospheres containing greater than 21% oxygen.

WARNING: ANY RAPID UPSCALE READING, FOLLOWED BY A DECLINING OR ERRATIC READING, MAY INDICATE A GAS CONCENTRATION BEYOND THE UPPER SCALE LIMIT, WHICH MAY BE HAZARDOUS.

SPECIAL CONDITIONS OF USE

The monitor is designed for use in harsh environments. The monitor is sealed to IP54 and, if not subjected to misuse or malicious damage, will provide many years of reliable service.

The monitor may contain electrochemical sensors. Under conditions of prolonged storage, these sensors should be removed. These sensors contain potentially corrosive liquid and care should be taken when handling or disposing, particularly when a leak is suspected.

ELECTROMAGNETIC COMPATIBILITY (EMC) DIRECTIVE

As stated on the EU Declaration of Conformity accompanying the product, the Protégé series has been tested and conforms to standard EN50270: Electromagnetic compatibility - Electrical apparatus for the detection and measurement of combustible gases, toxic gases and oxygen.

CAUTION: Exposure to radio frequency energy outside this standard may cause erroneous operation.

Table of Contents

1. About This Guide

This guide instructs gas detection personnel on the features and usage of the Protégé ZM Portable, Zero-Maintenance, Single-gas Monitor (or "the monitor"). It also provides information on configuration, operation, maintenance, specifications and trouble shooting. This user guide assumes the reader has a basic knowledge of gas detection procedures.

1.1. Guide Conventions

The following visual elements are used throughout this guide

WARNING: THIS ICON AND TEXT INDICATE A POTENTIALLY HAZARDOUS SITUATION, WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR INJURY.

Caution: This icon and text indicate an action or situation, which, if not avoided, could result in damage to the equipment.

Note: This icon and text designates information of special note to the operator.

1.2. Certifications and Approvals

The monitor has the following approvals:

Mark	
	Class I, Division 1, Groups A, B, C, D, and T4 -30°C - +50°C (O_2) -40°C - +60°C, (H_2S & SO_2) -40°C - +60°C (CO)
	II1G Ex ia IIC T4 Ga Ambient temperature: -30°C - +50°C (O_2) -40°C - +60°C, (H_2S & SO_2) -40°C - +60°C (CO) CML 24ATEX2002
	Ex ia IIC T4 Ga Ambient temperature: -30°C - +50°C (O_2) -40°C - +60°C, (H_2S & SO_2) -40°C - +60°C (CO) IECEx CML 24.0002
	ATEX Directive EMC Directive

Note: The monitors covered in this manual have not been evaluated for enriched oxygen atmosphere >21%.

Table 1 : Certifications and Approvals

1.3. General Safety Information

WARNING: READ, UNDERSTAND AND FOLLOW THE ENTIRE CONTENT OF THIS GUIDE PRIOR TO USE. FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY OR DEATH.

WARNING: ALL INDIVIDUALS WHO HAVE OR WILL HAVE RESPONSIBILITY FOR USING OR TESTING THIS PRODUCT MUST READ AND UNDERSTAND THE CONTENTS OF THIS MANUAL. THE PRODUCT WILL PERFORM AS DESIGNED ONLY IF USED AND TESTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. FAILURE TO FOLLOW MANUFACTURER'S INSTRUCTIONS WILL RENDER THE WARRANTY AND APPROVALS NULL AND VOID. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY ALSO RESULT IN SERIOUS INJURY OR DEATH.

WARNING: THE CAPACITANCE MEASURED ON THE ENCLOSURE'S METAL PARTS EXCEED 3PF (MAXIMUM MEASURED CAPACITANCE WAS 4.4PF). THE USER SHALL DETERMINE THE SUITABILITY OF THE EQUIPMENT IN THE END APPLICATION AND SHALL TAKE THE NECESSARY PRECAUTIONS IN THE USE OF THIS EQUIPMENT. FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY OR DEATH.

The Company can take no responsibility for use of its equipment if it is not used in accordance with the instructions. If further operational or maintenance details are required but not provided in this guide, contact the Company or their agent. The Company shall not be liable for any incidental or consequential damages in connection with any modifications, errors or omissions in this guide.

All pertinent regional and local safety regulations must be observed when installing and using this product. For reasons of safety and to assure compliance with documented system data, repairs to components showuld be performed only by the manufacturer.

Additionally, industry standards, codes, and legislation are subject to change. Updated copies should be obtained by users to ensure the most recently issued regulations, standards and guidelines are available.

All pertinent regional and local safety regulations must be observed when handling and disposing of hazardous material, Toxic (E-Chem) Sensors, batteries and other similar items that may fall under the classification of hazardous material.

The electrical, electronic, and battery elements of this product must not be disposed of via municipal waste streams but should be delivered to collection facilities. Information on collection facilities is given by the local authorities or importer's representative.

For products sold in Europe, the end of life procedures for battery operated electronic products must comply with the RoHS Directive 2002/95/EC, the WEEE Directive 2002/96/EC and the Battery Directive 2006/66/EC. These directives dictate how to dispose of the electronic and battery elements of the product after use. For Protégé products sold in the UK, contact Teledyne Gas Measurement Instruments Ltd for further information. For other parts of Europe, please contact your local provider of GMI products.

1.4. Warnings and Cautions – Monitor Use and Care

WARNING: ONLY QUALIFIED PERSONNEL — AS DEFINED ACCORDING TO LOCAL, COUNTY, STATE, FEDERAL AND INDIVIDUAL COMPANY STANDARDS — MAY OPERATE AND SERVICE THIS EQUIPMENT. READ AND UNDERSTAND THE GUIDE COMPLETELY BEFORE OPERATING OR SERVICING.

WARNING: WHEN IN DOUBT VACATE THE AREA IMMEDIATELY. YOU SHOULD VACATE THE AREA IMMEDIATELY SHOULD THE MONITOR INDICATE A WARNING OR ALARM CONDITION. YOU SHOULD KNOW, UNDERSTAND AND FOLLOW YOUR COMPANY'S SAFETY PROTOCOLS.

WARNING: IF THE MONITOR DOES NOT FUNCTION AS DESCRIBED HEREIN, REMOVE FROM SERVICE AND MARK FOR MAINTENANCE. ONLY USE GMI REPLACEMENT PARTS WHERE APPLICABLE.

WARNING: ONLY USE THE MONITOR IN ATMOSPHERES FOR WHICH IT IS INTENDED.

WARNING: TO PREVENT IGNITION OF AN EXPLOSIVE ATMOSPHERE, READ AND ADHERE TO THE MANUFACTURER'S MAINTENANCE PROCEDURES.

WARNING: READ THIS MANUAL FOR INTRINSIC SAFETY PRECAUTIONS. SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY, RESULTING IN SERIOUS INJURY OR DEATH.

WARNING: DO NOT ATTEMPT PART REPLACEMENT OR SUBSTITUTION AS THIS COULD IMPAIR THE INTRINSIC SAFETY RATING AND WILL VOID THE WARRANTY OF THE PRODUCT.

Caution: The monitor only detects gases while powered.

Caution: Periodically verify alarm operation by exposing the monitor to a gas concentration above the high alarm set point.

Caution: Verify the gas inlet port is free of dirt and debris prior to use.

Caution: Do not expose the monitor to severe mechanical or electrical shock. Always conduct device startup and bump test procedures.

1.5. Warnings and Cautions – Sensor Use and Care

WARNING: EXTENDED EXPOSURE OF THE MONITOR TO HIGH CONCENTRATIONS OF TOXIC GASES MAY RESULT IN DEGRADED SENSOR PERFORMANCE. IF AN ALARM OCCURS DUE TO HIGH CONCENTRATION OF TOXIC GASES, EXIT TO A SAFE AREA AND BUMP TEST OR RECALIBRATE AS NECESSARY.

1.6. Warnings and Cautions – Battery Use and Care

Caution: The battery cannot be recharged and is not replaceable.

Caution: Discard monitor when battery indicator shows a fully discharged battery.

2. Introduction

2.1. Monitor Overview

The Protégé ZM is a portable, single-gas, disposable monitor that operates with a single button and has a two (2) year life span (typical). It comes ready for use with a lithium-based battery, a filter and a sensor.

Gas indication is via a direct-reading backlit LCD, multiple bright LEDs, a loud audible alarm and a vibratory alarm. The monitor includes a downloadable data log for twenty-five (25) events, recording exposures, calibrations, and gas values.

The Protégé ZM monitors the atmosphere for potentially hazardous levels of gases. Four types are available: Hydrogen Sulfide (H_2S), Carbon Monoxide (CO), Sulfur Dioxide (SO_2) and Oxygen (O_2), as detailed in Table 1-1: Monitor Types.

Note: The monitor is supplied with factory default settings. Some settings can be altered to suit varying applications.

Gas	Hibernation Mode Option*	Factory Default Alarm Set Points**
Oxygen (O_2)	No	Low = 19.5% High = 23.5%
Hydrogen Sulfide (H_2S)	Yes	Low = 10 PPM High = 15 PPM STEL = 10 PPM TWA = 5 PPM
Carbon Monoxide (CO)	Yes	Low = 35 PPM High = 200 PPM STEL = 100 PPM TWA = 20 PPM
Sulfur Dioxide (SO_2)	Yes	Low = Disabled High = 1 PPM STEL = 1 PPM TWA = 0.5 PPM

*Hibernation mode fully switches off the monitor to extend battery life. This can only be performed with the IR Connect software or Test Station. When a device is hibernated, the event log is cleared.
** Customer may change these set points using IR Connect after delivery. To display alarm set points, press the monitor's button. Monitors may be ordered with custom alarm set points.

Table 1-1: Monitor Types

For any questions about the monitor or its operation, refer to Appendix D. TECHNICAL SUPPORT.

Figure 2-1: Major Parts of the Monitor shows the major parts of the monitor.

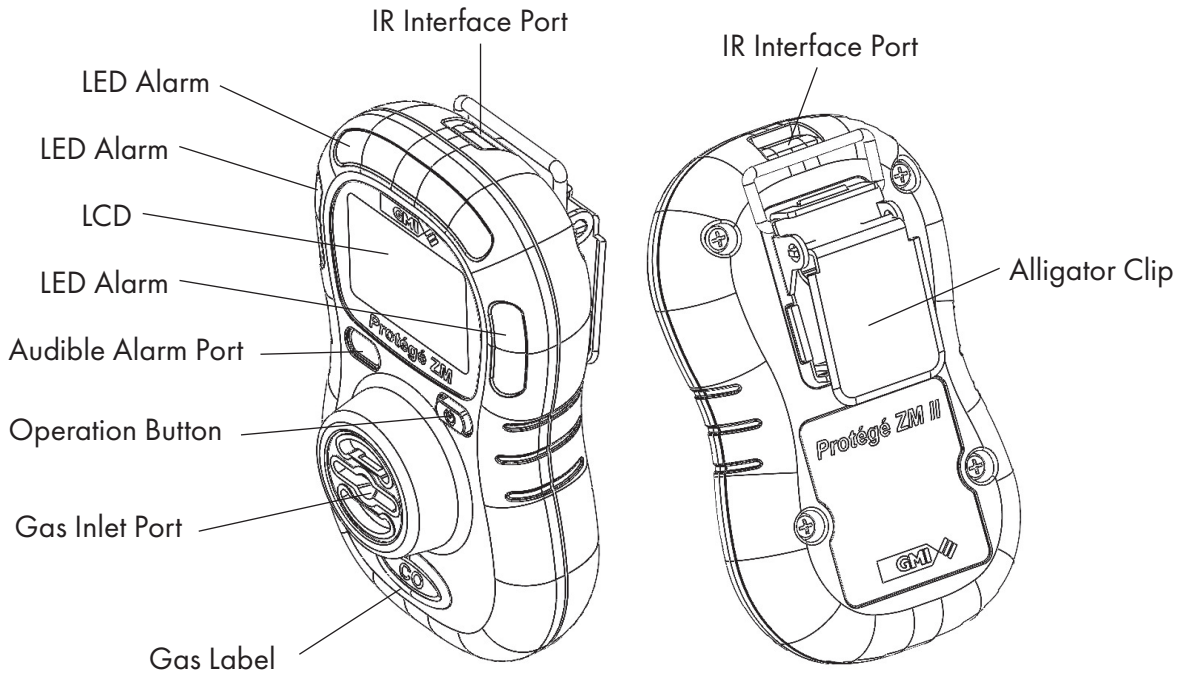


Figure 2-1: Major Parts of the Monitor

Note: The monitor is shipped with a calibration adapter (refer to Appendix C. Applicable Parts List).

3. Operation

3.1. Operating the Monitor

WARNING: IF THE MONITOR FAILS TO RESPOND PROPERLY UPON START UP, OR IF CALIBRATION IS OUT OF DATE, DO NOT USE THE DEVICE UNTIL IT HAS BEEN PROPERLY CALIBRATED. FAILURE TO DO SO COULD RESULT IN DEATH OR INJURY.

In the absence of gas, the LCD displays life remaining. If gas is present, the display automatically shows the gas concentration and a battery icon.

To activate the monitor, press and hold the front button for about five (5) seconds. On activation, the monitor vibrates, flashes and sounds an audible alarm. A successful activation will display 24 months of life remaining.

NOTE: You can change the monitor's default display using the IR Connect Software.

3.1.1. Monitor LCD Display

WARNING: YOU MUST FAMILIARIZE YOURSELF WITH THE ICONS IN BOTH THE NON-ALARM AND ALARM STATES.

WARNING: DO NOT USE IF THE DISPLAY IS MISSING ICONS OR CANNOT BE CLEARLY READ.

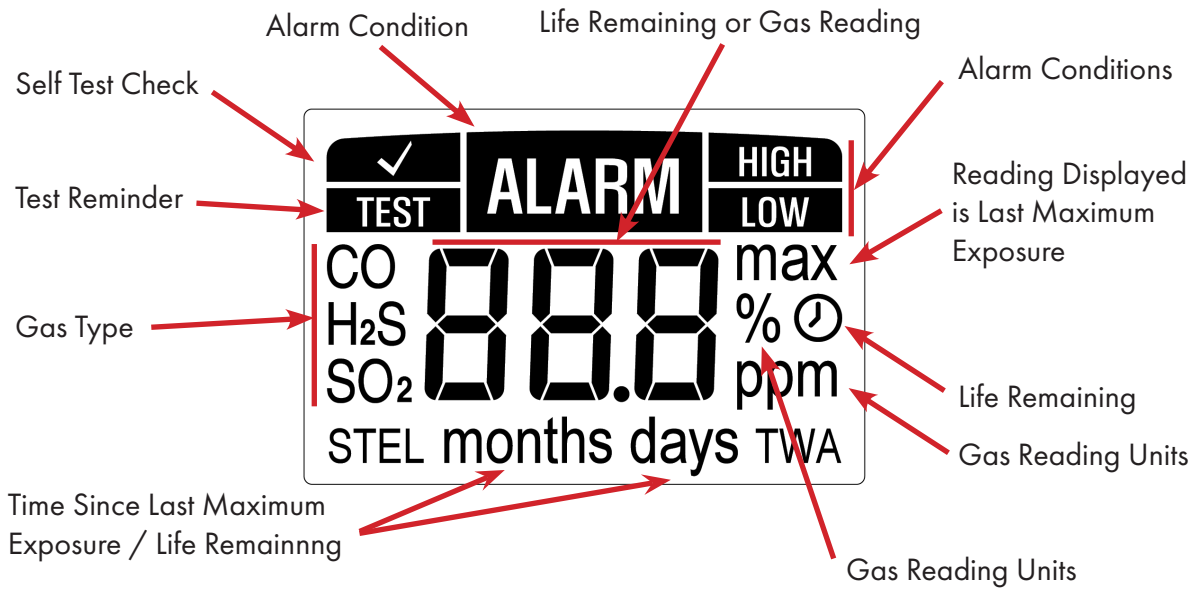


Figure 3-1: Monitor LCD Indicators

3.2. Powering Up the Monitor

WARNING: DO NOT USE THE MONITOR IF IT DOES NOT OPERATE AS DESCRIBED HERE.

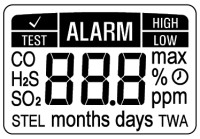
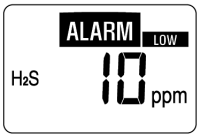
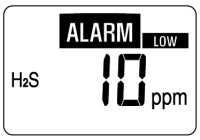
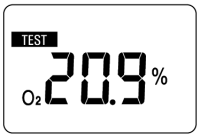
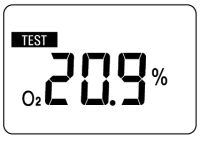
Action	LCD Display	Results
Press & hold the button for five (5) seconds.		The monitor starts and runs through a self-test: • The monitor emits one audible beep • All LEDs light and monitor vibrates • All LCD display elements appear
	 	Next, the LOW and HIGH alarm set points are displayed.
		When a self-test is successful, the monitor emits one short beep and displays: • self-test check icon • months / life remaining icon

Table 3-1: Monitor Power-Up Sequence

3.3. Monitor LCD Alerts & Alarms

LCD	Reason	LED	Beeps	Vibration
	Low Alarm	1 slow flash every second	1 slow beep every second	1 slow vibration every second
	High Alarm and Over Limit (OL) Alarm	2 fast flashes every second	2 fast beeps every second	2 fast vibrations every second
	Detector Life Countdown Alarm*	8 slow flashes per minute	8 slow beeps per minute	8 slow vibrations per minute
 	Bump Test Due** Note: LCD toggles between buP & reading.	Alternating flashes (left and right) every 5 seconds		
 	Calibration Due** Note: LCD toggles between CAL & reading.	Alternating flashes (left and right) every 5 seconds		

* When Life Remaining displays 0 hours, the detector operates for 8 hours before deactivating.
** Applies if a bump test or calibration interval is set.

Table 3-2: Monitor Alerts and Alarms Descriptions

4. Operator Maintenance

4.1. Bump Testing / O_2 Calibration

WARNING: OPERATING A MONITOR THAT HAS EXCEEDED ITS CALIBRATION DATE CAN CAUSE FALSE GAS READINGS. THESE READINGS MAY BE INVALID AND COULD LEAD TO DEATH OR INJURY.

The monitor must be operated and maintained correctly. Sensors can lose sensitivity through normal degradation, exposure to high gas concentrations, or sensor poisoning. Calibration and daily bump testing are essential to ensure the monitor performs as intended.

The frequency of calibration and bump testing is best determined from local regulatory standards, company policies, and industry best practices. The Company is not responsible for setting policies or practices.

- Calibration — Adjusts of the monitor's response to match a known concentration of gas.
- Bump Test — Verifies the calibration by subjecting the monitor to a known concentration of gas.

4.1.1. BUMP TEST USING CALIBRATION ADAPTER

Required Items:

- Calibration gas
- Tygon tubing – 2 feet of 3/16" ID
- Regulator – Set at 0.5 LPM
- Calibration adapter – Shipped with monitor

Perform the following:

1. Verify the concentration of the calibration gas exceeds the monitor's alarm set-point and the expiration date of the cylinder has not passed.
2. Attach regulator to the gas cylinder. Verify cylinder pressure.
3. Connect the Tygon tubing to the regulator and calibration adapter.
4. Attach the calibration adapter to the monitor and apply gas (see Figure 4-1: Bump Test - Calibration Adapter Attached).

NOTE: Ensure the calibration adapter is fitted onto the monitor with the arrow head pointing to the right (see Figure 4-1: Bump Test - Calibration Adapter Attached).

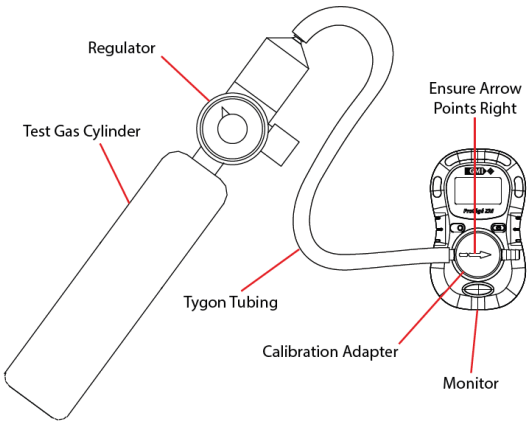


Figure 4-1: Bump Test - Calibration Adapter Attached

5. Verify monitor responds to target gas and activates the visual, audible, and vibrating alarms.
6. Turn off gas cylinder and remove Calibration Adapter.

WARNING: IF THE MONITOR FAILS TO ACTIVATE ALL ALARMS WITHIN ONE (1) MINUTE, REMOVE FROM SERVICE.

4.1.2. CLEARING A BUMP TEST INTERVAL ALARM ALERT

NOTE: The monitor can be configured to alert the user if a bump test is due.

When a bump test is due, buP flashes on the screen and the LEDs flash.

This alert may be cleared by either:

1. Performing a bump test at anytime using the Test Station and target gas.
2. Performing a manual bump test by pressing the front button once.
   A. After Alarms screens, the monitor displays GAS and the TEST icon flashes (see Figure 4-2: Manual Bump Test - Apply Gas).

Figure 4-2: Manual Bump Test - Apply Gas

   B. Once gas is applied and test is successful, the check mark ✔ appears.
   C. If gas is not applied or detected after 45 seconds, the test is aborted. Also, press button at any time to abort the test.

4.1.3. O_2 Calibration Using the Front Button

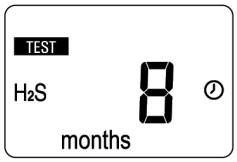
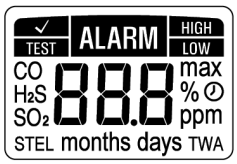
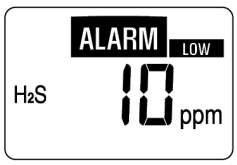
WARNING: ONLY PERFORM O_2 CALIBRATION IN NORMAL AIR (20.9% OXYGEN) THAT IS FREE OF HAZARDOUS GASES.

1. Press and hold the front button for four (4) seconds.
2. CAL displays and the O_2 icon flashes.
3. After a successful calibration, the monitor emits one (1) beep, vibrates and the LEDs flash.
4. If unsuccessful, the monitor will not beep or flash and will continue displaying CAL. If repeated calibrations fail, remove from service.

4.2. Self-test

Prior to daily use, the device prompts for a self-test. This ensures safe operation of the monitor. During the self-test, the audio, visual and vibration alarms are activated and the sensor is tested. Table 4-1: Self-Test Procedure details the self-test process.

WARNING: THE SELF-TEST DOES NOT REPLACE THE NEED TO BUMP TEST OR CALIBRTATE, WHICH VERIFIES THE MONITOR'S RESPONSE TO GAS.

LCD Display	Steps
	When the TEST icon appears, a self-test is required. Press the monitor's button to perform the self-test.
	This screen will appear. Ensure: • The monitor emits one audible beep • All LEDs light and monitor vibrates • All LCD display elements appear • Test icon flashes
 	Next, the LOW alarm and HIGH alarm set points are displayed.

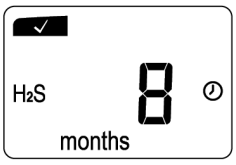
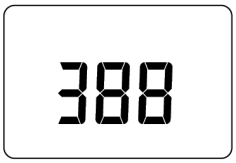
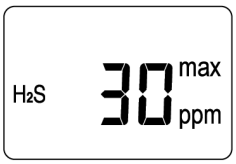
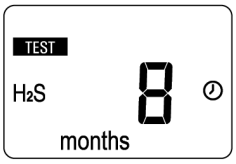
LCD Display	Steps
	If alarms have not been previously activated and the self-test was successful: • check mark is displayed, • monitor returns to the original screen, • one short audible beep sounds. By default, another self-test will be prompted in twenty (20) hours.
	If programmed with a USER ID, characters will now scroll across the LCD. This can be two (2) screens with of up to six (6) characters.
  	If alarms have been activated, the following is displayed: • MAX / MIN gas reading detected • MAX icon The time (hours/days/months) since the MAX / MIN reading was detected is now displayed. The next screen is CLP (Clear Last Peak). Press the button while this is displayed to reset the MAX reading stored. Note: The MAX reading is reset on the display, but is still stored in the monitor's event log.
	Monitor now returns to original screen.

Table 4-1: Self-Test Procedure

Caution: If the self-test fails, the monitor emits five (5) short beeps and flashes before displaying TEST.

Caution: If the self-test fails three (3) consecutive times the monitor enters Fail Safe mode. Remove from service.

Caution: During normal operations, the battery is continuously monitored. If the battery is low for more than three (3) hours the monitor enters Fail Safe mode.

Caution: If the battery self-test fails five (5) consecutive times the LCD goes blank. Remove from service.

4.3. ADJUSTING MONITOR CONFIGURATION

To adjust the monitor configuration, refer to Chapter 3 of the Protégé ZM System Guide (Document No. 087-0048).

4.4. ERROR CODES

Table 4-2: Error Codes lists the monitor's error codes.

Error Code	Fault
E01	Configuration memory
E02	Gas memory
E03	Program memory
E05	Battery
E06	Sensor

Table 4-2: Error Codes

Caution: If any error code is displayed, remove from service.

Appendix A: Monitor Specifications

Category	Specifications	
Battery Life	2 years, assuming a maximum 2 minutes of alarm time per day	
Alarms	Visual, vibrating, & audible (95 dB)	
Tests	Self-test on activation and every 20 hours. Continuous, automatic battery tests.	
Data Log	Lasts 25 events	
Housing	Thermoplastic Elastomer (TPE)	
Hydrogen Sulfide (H_2S)	Range / Resolution	1 to 100 PPM / 1 PPM
	Low Alarm Set Point	10 PPM*
	High Alarm Set Point	15 PPM*
	Calibration Gas Concentration	25 PPM
Carbon Monoxide (CO)	Range / Resolution	1 to 300 PPM / 1 PPM
	Low Alarm Set Point	35 PPM*
	High Alarm Set Point	200 PPM*
	Calibration Gas Concentration	100 PPM
Oxygen (O_2)	Range / Resolution	1 to 30% volume / 0.1%
	Low Alarm Set Point	19.5%*
	High Alarm Set Point	23.5%*
	Calibration Gas Concentration	18%
Sulfur Dioxide (SO_2)	Range / Resolution	0.1 to 20 PPM / 0.1 PPM
	Low Alarm Set Point	Disabled
	High Alarm Set Point	1 PPM
	Calibration Gas Concentration	10 PPM
Dimensions	3.7″ H X 2.2″ W X 1.3″ D (94 mm X 56 mm X 33 mm)	
Weight	3.2oz (92g)	
Operating Humidity	5% to 95% RH, non-condensing	
*Factory defaults can be changed.		

Table A-1: Monitor Specifications

Appendix B: Gas Interferences

The monitor may respond to other gasses or interference gasses. Table B-1: Gas Interferences provides some of the known gas interferences.

Note: Table B-1: Gas Interferences details selected gas interferences. This data is for guidance only and must not be used as calibration factors. A monitor's response to an interference gas may vary from the values shown.

Applied Gas	CO Monitor	H_2S Monitor	SO_2 Monitor
Carbon Monoxide (CO)	1	< 0.02	0
Hydrogen Sulfide (H_2S)	0	1	< 0.02
Sulfur Dioxide (SO_2)	0	< 0.15	1
Nitric Oxide (NO)	< 0.2	< 0.01	0.1
Nitrogen Dioxide (NO_2)		< 0.1	-1
Hydrogen (H_2)	< 0.3		0
Ethanol (C_2H_5OH)	< 0.01		
Ammonia (NH_3)	0	0	0
Chlorine (Cl_2)	< 0.06	0	< 0.06
Ethylene (C_2H_4)	1	0	
Acetylene (C_2H_2)	0.9		< 3

Table B-1: Gas Interferences

Appendix C: Parts

Table C-1: Applicable Parts List details replacement parts and accessories for the monitor.

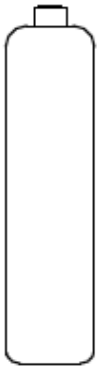
Category	Item	Description	Part Number	
			Americas / APAC	EMEA
Monitor		Carbon Monoxide (CO)	096-3459-01	2025938
		Hydrogen Sulfide (H_2S)	096-3459-02	2025937
		Oxygen (O_2)	096-3459-03	2025939
		Sulfur Dioxide (SO_2)	096-3459-04	2025936
Accessories		Alligator Belt Clip	073-0355	2025957
		Calibration Adapter	074-0564	2025956
		Tygon Tubing 3/16″ ID 10′ length	096-3167	66118
		Calibration Station	2027001	2027001
Gas Cylinders & Regulator		H_2S 25 PPM 34L @ 500PSI	077-0272	2019127
		CO 100 PPM 103 L @ 1000 PSI	077-0246	99167
		O_2 16% 103 L @ 1000 PSI	077-0039	2026297
		SO_2 10 PPM 58 L @ 500 PSI	Contact Sales	99147
		Regulator 0.5 LPM (For Manual Calibration)	077-0018	2019125
Note: For calibration equipment, contact your Teledyne GMI sales representative.				

Table C-1: Applicable Parts List

Appendix D: Technical Support

This product is designed to provide you with reliable, trouble-free service. Contact your regional technical support if you have technical questions, need support, or if you need to return a product. Details can be found at:

www.teledynegasandflamedetection.com

Note: When returning a product, contact Technical Support to obtain a Return Material Authorization (RMA) number prior to shipping.

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