

ENMET Corporation
PO Box 979
Ann Arbor, MI 48106-0979

EX-2000
Operation and Maintenance
Manual

80006-015

MCN-281; 11/13/02
MCN-299; 05/23/03
MCN-321; 11/05/04
MCN-350; 08/15/06

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Reference information:


NOTE: [important information about use of instrument – if not followed may have to redo some steps.]

CAUTION: [affects equipment – if not followed may cause damage to instrument, sensor etc...]

WARNING: [affects personnel safety – if not followed may cause bodily injury or death.]

1.0 Introduction

The **EX-2000** is a small, pocket-size personal gas detector for monitoring flammable gases. This lightweight hand-held instrument is an effective warning device for staff working in areas that can contain combustible gases.

The **EX-2000** instrument is  certified for use in group II explosive atmospheres and only when it is equipped with cells or batteries of the type recommended by the maker. CSA certification covers the following batteries: Duracell MN1500, Panasonic P80 AAS, Saft VSE AA 850, Panasonic HHR 1500, Varta VH 1200 AA.

The **EX-2000** may be used by personnel entering a building or room where combustible gases are stored, at industrial facilities where gas contamination is common, or for similar situations. This combustible gas monitor is used to detect a gas leak and continuously monitor for the possibility of an explosive atmosphere. The instrument has a digital display of the gas concentration and audio/visual alarms that are activated at two different programmed alarm levels.

NOTE: *All specifications stated in this manual may change without notice.*

1.1 Unpack

Unpack the **EX-2000** and examine it for shipping damage. If such damage is observed, notify both **ENMET** customer service personnel and the commercial carrier involved immediately.

Regarding Damaged Shipments

NOTE: It is your responsibility to follow these instructions. If they are not followed, the carrier will not honor any claims for damage.

- This shipment was carefully inspected, verified and properly packaged at our company and delivered to the carrier in good condition.
- When it was picked up by the carrier at **ENMET**, it legally became your company's property.
- If your shipment arrives damaged:
 - Keep the items, packing material, and carton "As Is." Within 5 days of receipt, notify the carrier's local office and request immediate inspection of the carton and the contents.
 - After the inspection and after you have received written acknowledgment of the damage from the carrier, contact **ENMET** Customer Service for return authorization and further instructions. Have your Purchase Order and Sales Order numbers available.
- ENMET** either repairs or replaces damaged equipment and invoices the carrier to the extent of the liability coverage, usually \$100.00. Repair or replacement charges above that value are your company's responsibility.
- The shipping company may offer optional insurance coverage. **ENMET** only insures shipments with the shipping company when asked to do so in writing by our customer. If you need your shipments insured, please forward a written request to **ENMET** Customer Service.

Regarding Shortages

If there are any shortages or questions regarding this shipment, please notify **ENMET** Customer Service within 5 days of receipt at the following address:

ENMET Corporation
680 Fairfield Court
Ann Arbor, MI 48108
734-761-1270 734-761-3220 Fax

1.2 Check Order

Check the contents of the shipment against the purchase order. Verify that the **EX-2000** is received as ordered. Each **EX-2000** is labeled with its target gas. If there are accessories on the order, ascertain that they are present. Check the contents of calibration kits. Notify **ENMET** customer service personnel of any discrepancy immediately.

1.3 Serial Numbers

Each **EX-2000** is serialized. These numbers are on tags on the equipment and are on record in an **ENMET** database.

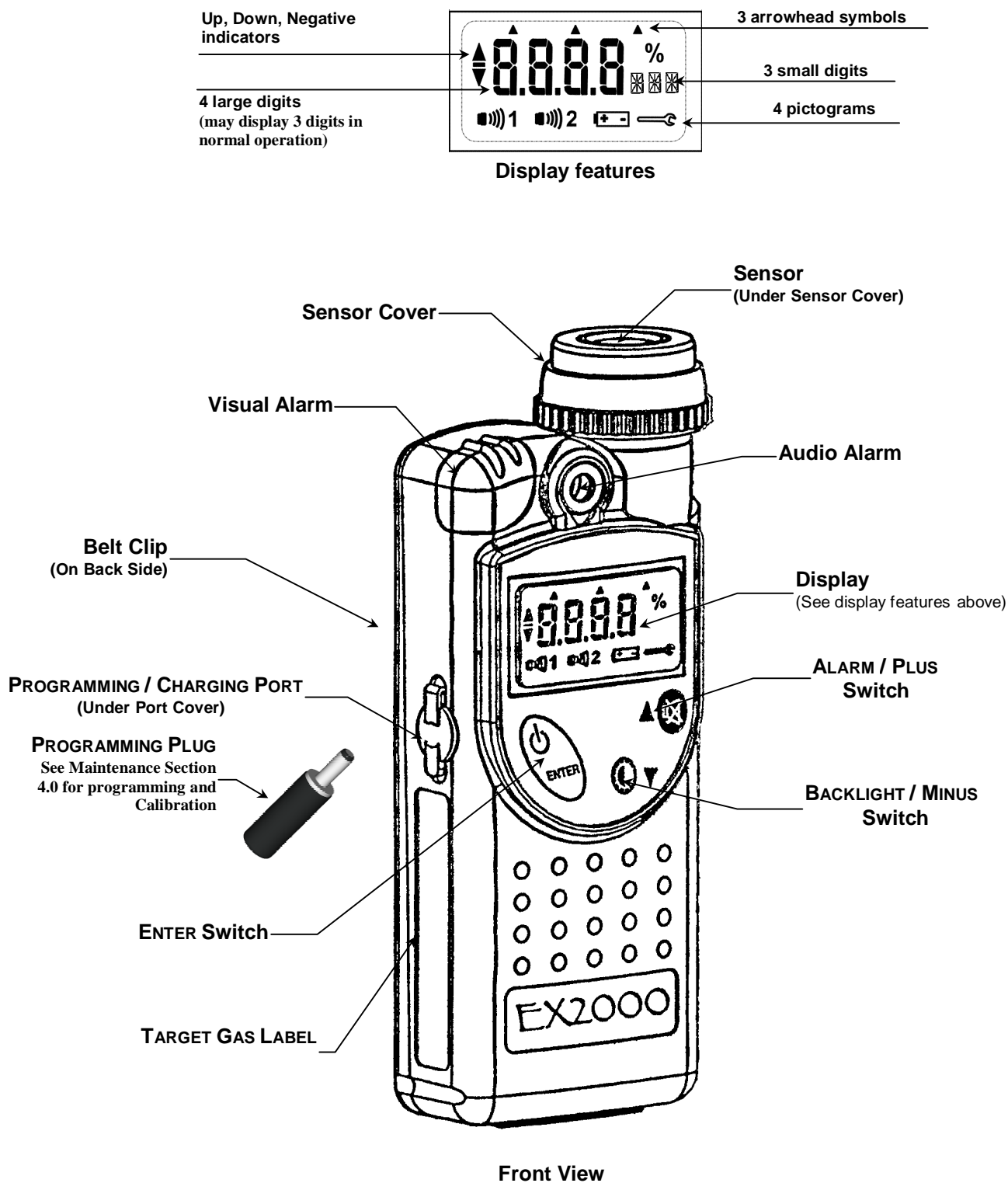
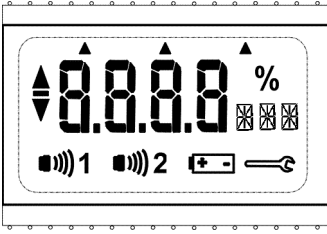





Figure 1: Features of the EX-2000

2.0 EX-2000 Features

See figure 1 for location of features listed below.

Feature	Description
Display 	<p>The Liquid Crystal Display(LCD) allows messages to be read clearly:</p> <ul style="list-style-type: none"> • 4 digits (7 segments), for displaying the measurement • 3 digits (14 segments), for displaying symbols such as: LEL, MIN, MAX, TST, OFF, CH4 etc ... • 3 arrowhead symbols to indicate the parameter scrolling menu is used to indicate: Up, Down and Negative indicators • 4 pictograms supplementing the audio and visual alarms relating to the exceeding of thresholds, battery faults, maintenance mode etc... • Equipped with backlight by Light-Emitting Diodes (LED)
ENTER Switch 	<p>Red oval pushbutton switch on the front of the EX-2000, below the display.</p> <ul style="list-style-type: none"> • Switching the instrument on or off • Enter, confirmation
BACKLIGHT / MINUS Switch 	<p>Round w/down pointing triangle pushbutton switch on the front of the EX-2000.</p> <ul style="list-style-type: none"> • Backlighting the display • Scrolling the parameters and menus • “Minus ” switch, during programming or calibration • confirmation of "yes" or "no", during programming or calibration
ALARM / PLUS Switch 	<p>Round w/up pointing triangle pushbutton switch on the front of the EX-2000.</p> <ul style="list-style-type: none"> • Clears the gas alarms • “Plus” switch, during programming or calibration
Visual Alarm	Red indicator clearly visible on 3 sides and located at the top of the instrument
Audio Alarm	Loud buzzer located on the front panel of the instrument
Sensor	<p>Located under the sensor cover on the top of the EX-2000</p> <ul style="list-style-type: none"> • The target gas will be labeled on the left side of the EX-2000
Belt Clip	Clip to outside of clothing for hands-free operation
Programming / Charge Port	<p>Located at the left side of the EX-2000 under an attached cover.</p> <ul style="list-style-type: none"> • To plug-in battery charger • To plug-in programming plug
Programming Plug	Used to access the Programming and Calibration Menus for Maintenance

2.1 Power supply

The **EX-2000** is powered by 3 batteries either alkaline or optional rechargeable.

- The 3 AA alkaline will last 12 hours when used under normal conditions. When replaced they must be replaced with **Duracell MN 1500**
- The 3 optional cadmium-nickel rechargeable will last 30 hours when used under normal conditions. When replaced they must be replaced with **Panasonic P80 AA, 1V2/800 mAH**

WARNING: Substitution of batteries or other components may compromise the intrinsic safety of the instrument.

3.0 Operation

Refer to Figure 1 for location of the **EX-2000** switches, alarms and display. While in operation the **EX-2000** will regularly sound a chirp or “beep” to indicate the instrument is turned on and in normal operation with no faults detected. This confidence chirp is set at the factory and can not be altered or turned off.

EX-2000 is programmed at the factory for a specific target gas which is displayed on a label on the left side of the instrument.

CAUTION: The **EX-2000** must be returned to **ENMET** or an authorized distributor to alter the target gas

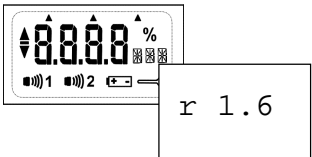


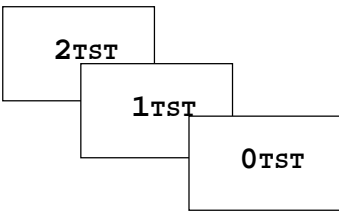

The ENTER switch is used for both start-up and shutdown of the **EX-2000**. See section 3.1 for start-up & operation and section 3.2 for shutdown of the **EX-2000** instrument.

3.1 Turning On the EX2000

To start-up the **EX-2000**, press and release the ENTER switch.

When the **EX-2000** is turned on the following self test and count down for sensor to stabilization in succession on the display, accompanied by a continuous visual and audible signal.

Example of start-up sequence:

Display	Sequence
	Audio and Visual alarms are active during this sequence: <ol style="list-style-type: none"> 1. Whole display is flashed. (4 large digits will flash, 3 large digits will display in normal operation) 2. Software version is displayed.
	<ol style="list-style-type: none"> 3. Alarm 1 threshold is displayed.
	<ol style="list-style-type: none"> 4. Alarm 2 threshold is displayed.
	<ol style="list-style-type: none"> 5. Self-test is indicated. 6. Countdown of sensor stabilization time is displayed. (10 seconds maximum)
	<ol style="list-style-type: none"> 7. Operational measurement displayed. And Audio & Visual Alarms go to the normal state.

A regular audible “beep” signals that the instrument is operating correctly. The interval between the “beeps” is factory-programmable and the “beeps” can not be disabled.

3.1.1 Alarms



Audio and visual alarms will activate in pulsed or continuous, to indicate the type of alarm being triggered. The display will indicate the threshold or code of the alarm. To clear a threshold alarm *after leaving the dangerous area*, press and release the ALARM switch.




NOTE: If the alarm threshold is still exceeded: The visual alarm will continue to flash and the threshold pictogram will remain indicated.

Fault alarms are not able to be cleared, see fault alarms table for possible remedies.

Threshold Alarms: Pulsed audio alarm can be cleared by pressing the ALARM switch 

Alarm Type	Alarm Indication	Parameters
Threshold 1	Display:  1 XXX% Audio : 1 beep every 2 seconds	Adjustable from 0 – 60% LEL instantaneous alarm (adjustable)
Threshold 2	Display:  2 XXX% Audio: 1 beep per second	Fixed at 60 % LEL (factory set, not adjustable)
Over-range	SUP; continuous audio alarm	See fault alarms table



Fault Alarms: Continuous audio alarm can not be cleared

Display	Possible Cause	Possible Remedy
Display: BAT 	Batteries discharged: The instrument can no longer operate	Turn instrument off and recharge the batteries
Display: SUP	Measurement range is exceeded	Leave contaminated area and allow sensor to stabilize in clean air.
1DEF	The cell zero has drifted out of spec	Calibrate
2DEF	The cell is too sensitive	Calibrate
4DEF (on small digits)	Expired Cell (sensitivity too low)	Replace cell and calibrate
8DEF	The EEPROM of the instrument is not initialized	Return to ENMET for initialization
512DEF	Problem in the calculations, capacity exceeded	Return to ENMET
16DEF	Measurement to negative	Calibrate May need to replace cell and calibrate
64DEF	Temperature sensor is damaged	Return to ENMET
Er45 or Er49	Communication error between the microprocessor and the cell EEPROM	<ul style="list-style-type: none"> • Disconnect the cell and check the connection. • Replace cell if message persists • Return to ENMET

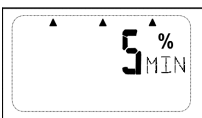



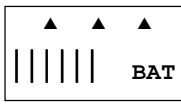


NOTE: If several faults are simultaneously present, the display corresponds to the sum of faults.

Example: The messages Er 35 or Er 39 show the communication errors between the microcontroller of the apparatus and the EEPROM memory of the device.


3.1.2 Scrolling of Parameters

To view the present status of MIN, MAX and battery level press the BACKLIGHT switch twice.  

Example of parameter sequence:

Display	Sequence
	<p>Audio and Visual alarms are active during this sequence: 3 arrowhead symbols indicate instrument is not in measurement display mode.</p> <ol style="list-style-type: none"> The Minimum (lowest) measurement detected since the EX-2000 was started-up or reinitialized (see section 3.1.4) Press the BACKLIGHT switch again. 
	<ol style="list-style-type: none"> The Maximum (highest) measurement detected since the EX-2000 was started-up or reinitialized (see section 3.1.4) Press the BACKLIGHT switch again. 
	<ol style="list-style-type: none"> Battery status is indicated with a series of bars. The number of bars indicating the battery life remaining. Press the BACKLIGHT switch again. 
	<ol style="list-style-type: none"> Return to Operational measurement display. And Audio & Visual Alarms go to the normal mode.

3.1.3 Backlight

To backlight the **EX-2000** display for viewing in a low light location, press and release the BACKLIGHT switch. 

The two red LEDs on either side of the display will stay lit for 20 seconds.

3.1.4 Reinitialize Min & Max

The Minimum and Maximum readings are held in memory since the instrument was turned on. They are reset each time the instrument is turned on. These measurements can be reinitialized (reset) manually (without restarting the instrument).

To reinitialize the **EX-2000** press and *hold* the BACKLIGHT and ALARM switches at the same time:   

- The **EX-2000** will beep to indicate the min & max value reset is complete.
- Release the switches.
- The new MIN and MAX readings now equal the current value.

3.2 Shutting down the EX-2000

To turn off the **EX-2000** press and *hold* the ENTER switch.



Example of display at shut down:

Display	Sequence
	<p>The display indicates count down of shut down:</p> <ol style="list-style-type: none"> 1. Hold down ENTER switch while instrument counts down internal shut down sequence.
	<ol style="list-style-type: none"> 2. Audio alarm beeps once to indicate the instrument is off. 3. Release the ENTER switch.

3.3 Charging the EX-2000

The **EX-2000** is powered by a rechargeable NiCd battery pack, 3.6V – 0.8 Ah.

The battery pack is connected directly to the main PCB

The expected operating battery charge is 16 hours under normal use. It is recommended that the batteries be completely discharged at least once a month, and then fully recharged to maximize the life of the cadmium-nickel batteries.

Too completely, discharge the **EX-2000** operate until it automatically shuts down.

To charge the **EX-2000** battery, plug the charger into the Program/Charge Port on the left side of the instrument. See figure 1 for location. Maximum recharge time is 16 hours.

4.0 Maintenance

The **EX-2000** is a safety instrument so needs to be calibrated regularly to insure accuracy.

CAUTION: The procedures and adjustments described in the following sections must be performed by authorized personal. Failure to follow instructions may jeopardize accurate measurements.


To enter the maintenance menus:

1. Insert the programming plug into the programming/charge port on the side of the instrument, see Figure 1.



2. Press the BACKLIGHT and ALARM switches at the same time.



- A flashing pictogram of the maintenance wrench will appear,  to indicate the **EX-2000** is in maintenance mode.
- The audio and visual alarms are disabled while the instrument is in maintenance mode.
- Press the BACKLIGHT switch to toggle between the programming and calibration menus.



4.1 Programming the EX-2000

The programming menu is used to manually to program the adjustable alarm threshold: Threshold 1 (0 – 60%LEL)

To enter the Programming Menu:

1. Enter the programming menu by inserting the programming plug into the programming port and pressing the ALARM & BACKLIGHT switches simultaneously. The pictogram of the maintenance wrench will appear and PrOG will appear on the display, to indicate the **EX-2000** is in maintenance mode and ready for programming.
2. While PrOG is displayed press the ENTER switch to enter the programming menu.
 - The current alarm threshold will be displayed.
3. Modify the alarm threshold:
 - Press the BACKLIGHT switch to decrease the threshold value. ▼
 - Press the ALARM switch to increase the threshold value. ▲
4. Press the ENTER switch to enter the new threshold value.
 - A confirmation request for the new alarm threshold will appear on the display.
5. Press the BACKLIGHT switch to toggle between NON (no) and OUI (yes).
6. Press the ENTER switch to confirm or reject the new threshold.

The instrument will return to the Operational Mode.

Remove the programming plug.

4.2 Calibrating the EX-2000

The only way to check if the **EX-2000** detection function is working properly is the calibration performed with a standard gas. Calibration must be performed:

- Every 6 months minimum.
- After an exposure to high gas concentrations.
- After more than one month storage with no use.
- After a sensor change.
- Following an instrument fault.

The recommended standard gas is stated on the target gas label, located on the side of the **EX-2000**. Other standard gases may be used. See Table 1, Coefficients of gases detected.

To enter the Calibration Menu:

1. Enter the calibration menu by inserting the programming plug into the programming port and pressing the ALARM & BACKLIGHT switches simultaneously. The pictogram of the maintenance wrench will appear and PrOG will appear on the display, to indicate the **EX-2000** is in maintenance mode and ready for programming or calibration. Press the BACKLIGHT switch to toggle between programming and calibration.
2. While CAL is displayed press the ENTER switch to enter the calibration menu.
 - While Set0 is displayed press the ENTER switch to adjust the zero value.
3. Modify the zero value if necessary:
 - Press the BACKLIGHT switch to decrease the zero value. ▼
 - Press the ALARM switch to increase the zero value. ▲
4. Press the ENTER switch to enter the new zero value.
 - SEnS will appear on the display, for the adjustment of sensitivity to standard gas.
5. Press the ENTER switch to enter the sensitivity adjustment procedure.
6. Attach the calibration cover to the calibration adapter and position the calibration cover over the sensor.
7. Attach the standard gas to the calibration adapter and open valve on cylinder of gas to allow the gas to flow
 - The measurement of applied standard gas will appear on the display, for the adjustment of sensitivity to standard gas. Allow signal to stabilize, approximately 2 minutes.
8. Modify the sensitivity value if necessary:
 - Press the BACKLIGHT switch to decrease the sensitivity value. ▼
 - Press the ALARM switch to increase the sensitivity value. ▲
9. Press the ENTER switch to request confirmation of the new sensitivity value.
 - COnF will appear on the display for the confirmation of the new sensitivity value.
10. Press the ENTER switch to confirm of the new sensitivity value.
 - COnFNO will appear on the display, to request rejection or confirmation of sensitivity value.
 - Press the BACKLIGHT switch to toggle between Confirmation Yes or No.(COnFYES or COnFNO)
11. Press the ENTER switch to confirm or reject the new sensitivity value.

The instrument will return to the Operational Mode.

Remove calibration adapter and cover.

Remove the programming plug.

To calibrate an **EX-2000** with a gas other than the programmed/labeled gas refer to the coefficient table below.

We recommend using 50% LEL levels of gases. Other levels are acceptable.

Example: Ethyl Acetate recommended calibration gas is Butane and its coefficient factor is 0.9

50%LEL multiplied by the coefficient of the programmed gas 0.9 equals 45.

Apply the 50%LEL Butane to the instrument and adjust the reading on the display to read 45. Calibration is complete.

Table 1: Coefficients of Gases Detected

Gas	Empirical Formula	%LEL	Recommended	
			Cal. gas	Coefficient
Ethyl acetate	C ₄ H ₈ O ₂	2.1 %	Butane	0.9
Acetone	C ₃ H ₆ O	2.15 %	H ₂	2.6
Acetylene	C ₂ H ₂	1.5 %	H ₂	1.8
Ammonia	NH ₃	15.0 %	H ₂	0.85
Benzene	C ₆ H ₆	1.2 %	Butane	1.5
1, 3-Butadiene	C ₄ H ₆	1.4 %	H ₂	2.1
Butane	C ₄ H ₁₀	1.5 %	Butane	1.0
2-Butanone (MEK)	C ₄ H ₈ O	1.8 %	Butane	1.2
Dimethylether	C ₂ H ₆ O	3.0 %	Butane	1.0
Unleaded gasoline	Mixture	1.1 %	Butane	1.6
Gasoline	Mixture	1.3 %	Butane	1.4
Ethane	C ₂ H ₆	3.0 %	CH ₄	1.1
Ethanol	C ₂ H ₆ O	3.3 %	H ₂	1.95
Ethylene	C ₂ H ₄	2.7 %	H ₂	1.7
Diesel oil	Mixture	0.6 %	Butane	3.25
Natural gas	CH ₄	5.0 %	CH ₄	1.05
L.P.G.	Prop+But	1.65 %	Butane	1.35
Heptane	C ₇ H ₁₆	1.1 %	Butane	1.95
Hexane	C ₆ H ₁₄	1.2 %	Butane	1.15
Hydrogen	H ₂	4.0 %	H ₂	1.0
Isobutane	C ₄ H ₁₀	1.5 %	Butane	1.05
Isopropanol	C ₃ H ₈ O	2.15 %	Butane	1.05
Kerosene (JP4)	C ₁₀ - C ₁₆	0.7 %	Butane	4.85
Methane	CH ₄	5.0 %	CH ₄	1.0
Octane	C ₈ H ₁₈	1.0 %	Butane	2.25
Ethylene oxide	C ₂ H ₄ O	2.6 %	Butane	1.35
Propylene oxide	C ₃ H ₆ O	2.3 %	Butane	1.3
Pentane	C ₅ H ₁₂	1.4 %	Butane	1.05
Propane	C ₃ H ₈	2.0 %	Propane	1.3
Propylene	C ₃ H ₆	2.0 %	Butane	0.8
Styrene	C ₈ H ₁₂	1.1 %	Butane	1.6
Toluene	C ₇ H ₈	1.2 %	Butane	1.35
White Spirit	Mixture	1.1 %	Butane	3.25
Xylene	C ₈ H ₁₀	1.0 %	Butane	1.6

4.3 Replacing the EX-2000 Sensor

The **EX-2000** is equipped with a catalytic sensor with a microprocessor source.

Being a vital element of the gas detector, the sensor module must be treated with care. Mechanical impacts, splashing with water etc... may impair the quality of the measurement or even, in extreme cases destroy the sensor.

A water-repellent and anti-dust filter fixed to the sintered metal protects the head of the sensor.

To replace the sensor and filter:

- Remove sensor cover by unscrewing the sensor cover from the instrument.
- Note the placement of the cover seal, filter and sensor seal.
- Unplug sensor and remove.
- Plug-in the new sensor.
- Replace sensor seal, filter and cover seal
- Replace sensor cover and screw into instrument.

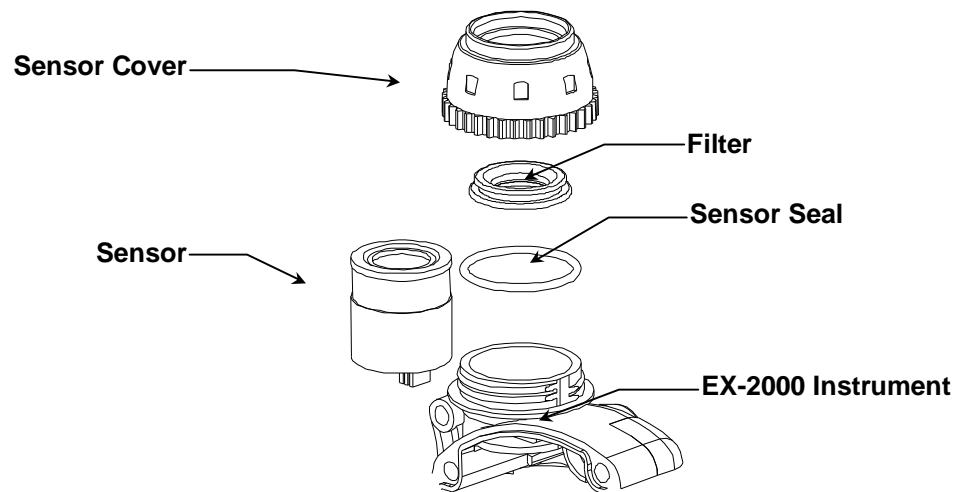


Figure 2: Sensor Located under the Sensor Cover

5.0 Replacement Part Numbers

ENMET replacement part numbers:

Description	Part Number
Programming Plug	02552-005
Calibration cup	02552-004
Sensor	02552-001
Sensor Filter	02552-003
Battery pack with plug	02552-012
Charger, 110Vac	67051-050
Charger, 220Vac	67051-051

6.0 WARRANTY

ENMET warrants new instruments to be free from defects in workmanship and material under normal use for a period of one year from date of shipment from **ENMET**. The warranty covers both parts and labor excluding instrument calibration and expendable parts such as calibration gas, filters, batteries, etc... Equipment believed to be defective should be returned to **ENMET** within the warranty period (transportation prepaid) for inspection. If the evaluation by **ENMET** confirms that the product is defective, it will be repaired or replaced at no charge, within the stated limitations, and returned prepaid to any location in the United States by the most economical means, e.g. Surface UPS/RPS. If an expedient means of transportation is requested during the warranty period, the customer is responsible for the difference between the most economical means and the expedient mode. **ENMET** shall not be liable for any loss or damage caused by the improper use of the product. The purchaser indemnifies and saves harmless the company with respect to any loss or damages that may arise through the use by the purchaser or others of this equipment.

This warranty is expressly given in lieu of all other warranties, either expressed or implied, including that of merchantability, and all other obligations or liabilities of **ENMET** which may arise in connection with this equipment. **ENMET** neither assumes nor authorizes any representative or other person to assume for it any obligation or liability other than that which is set forth herein.

NOTE: When returning an instrument to the factory for service:

- Be sure to include paperwork.
- A purchase order, return address and telephone number will assist in the expedient repair and return of your unit.
- Include any specific instructions.
- For warranty service, include date of purchase
- If you require an estimate, please contact **ENMET**.

There is Return for Repair Instructions and Form on the last pages of this manual. This form can be copied or used as needed.



PO Box 979
680 Fairfield Court
Ann Arbor, Michigan 48106-0979
734.761.1270 Fax 734.761.3220

Returning an Instrument for Repair

ENMET instruments may be returned to the factory or any one of our Field Service Centers for regular repair service or calibration. The **ENMET** Repair Department and Field Service Centers also perform warranty service work.

When returning an instrument to the factory or service center for service, paperwork must be included which contains the following information:

- A purchase order number or reference number.
- A contact name with return address, telephone and fax numbers
- Specific instructions regarding desired service or description of the problems being encountered.
- Date of original purchase and copy of packing slip or invoice for warranty consideration.
- If a price estimate is required, please note it accordingly *and be sure to include a fax number.*

Providing the above information assists in the expedient repair and return of your unit.

Failure to provide this information can result in processing delays.

ENMET charges a one hour minimum billing for all approved repairs with additional time billed to the closest tenth of an hour. All instruments sent to **ENMET** are subject to a minimum \$30 evaluation fee, even if returned unrepaired. Unclaimed instruments that **ENMET** has received without appropriate paperwork or attempts to advise repair costs that have been unanswered, after a period of 60 days, may be disposed of or returned unrepaired COD with the evaluation fee.

Service centers may have different rates or terms. Be sure to contact them for this information.

Repaired instruments are returned by UPS/FedEx Ground and are not insured unless otherwise specified. If expedited shipping methods or insurance is required, it must be stated in your paperwork.

Note: Warranty of customer installed components.

If a component is purchased and installed in the field, and fails within the warranty term, it can be returned to **ENMET** and will be replaced, free of charge, per **ENMET's** returned goods procedure.

If the entire instrument is returned to **ENMET** Corporation with the defective item installed, the item will be replaced at no cost, but the instrument will be subject to labor charges at half of the standard rate.



Repair Return Form

Mailing Address:

ENMET Corporation
PO Box 979
Ann Arbor, Michigan 48106

Shipping Address:

ENMET Corporation
Attn: Repair Department
680 Fairfield Court
Ann Arbor, Michigan 48108

Phone Number: 734.761.1270

FAX Number: 734.761.3220

Your Mailing Address:

Your Shipping Address:

_____	_____
_____	_____
_____	_____
_____	_____

Contact Name: _____

Your Phone: _____

Your PO/Reference Number: _____

Your FAX: _____

Payment Terms: **COD**

(check one)

VISA / MasterCard

_____ Card number

_____ Expiration

Return Shipping Method:

UPS: Ground 3 Day Select Next Day Air ND Air Saver 2-Day Air

Federal Express: Ground Express Saver P-1 Standard 2-Day Air

FedEx Account number: _____

Would you like ENMET to insure the return shipment?

No

Yes Insurance Amount: \$ _____

