

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

RECON

Manual

Manual Part Number
80006-018
MCN-440, 08/23/10

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1.0 Introduction

The **RECON** is a portable-single gas detector for detection of combustible or toxic gases. It is intended for detection of combustible or toxic gas in commercial or industrial facilities to keep workers safe, and/or detect a potentially explosive gas environment.

The **RECON**, adopting excellent-quality sensor, makes detection in the way of natural diffusion. It has good sensitivity and reproducibility. The detector adopts embedded MCU controller, easy to operate.

The **RECON** incorporates a special high strength, anti-slip rubber case providing anti slip handleability.

The **RECON** has an ingress protection rating of 65.

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

1.1 Unpack

Unpack the **RECON** 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:

Items included with the RECON <ul style="list-style-type: none"> <input type="checkbox"/> Instrument <input type="checkbox"/> Charger <input type="checkbox"/> Screwdriver <input type="checkbox"/> Manual 	ENMET Corporation 680 Fairfield Court Ann Arbor, MI 48108 734-761-1270 734-761-3220 Fax
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1.2 Check Order

Check, the contents of the shipment against the purchase order. Verify that the **RECON** is received as ordered. Each **RECON** 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

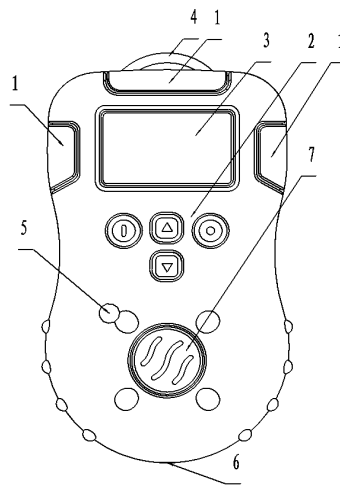
Each **RECON** is serialized. These numbers are on tags on the equipment and are on record in an **ENMET** database.

2.0 Features

2.1 RECON Features

See Figure 1 for location of features:

	FEATURE	DESCRIPTION
1	Visual Alarms	Red indicators clearly visible on 3 sides and located at the top of the RECON LED's activate when alarm thresholds are exceeded
2	Pushbuttons	POWER, UP, SET and DOWN Buttons See section 3.1 for description of each pushbutton
3	Display	The Liquid Crystal Display (LCD) allows messages to be read clearly: <ul style="list-style-type: none"> • 4 digits (7 segments), for displaying the measurement • pictograms symbols used to indicate supplementing the audio and visual alarms relating to the exceeding of thresholds, battery faults, maintenance mode etc...
4	Belt Clip	Clip to outside of clothing for hands-free operation Attached to back of the instrument
5	Audio Alarm	Loud buzzer located on the front of the instrument The audio alarm (Buzzer) is on when the unit is in alarm.
6	Charging Socket	Battery Charging Connection, to plug in battery charger
7	Sensor	Located in front of the RECON <ul style="list-style-type: none"> • Type varies depending on the target gas



Front View

Figure 1: **RECON** Features

LCD, DISPLAY	NUMBER	FUNCTION
	1	Battery
	2	Lock
	3	sound
	4	vibration
	5	Alarming conditions
	6	Warning or the maximum level
	7	numeric value
	8	Error
	9	<i>Not Used</i>
	10	Clock
	11	Zero calibration
	12	Calibration point or calibration status
	13	<i>Not Used</i>
	14	Set-up of the parameters
	15	Indication of the gas concentration units

Figure 2: RECON Display

3.0 Description of Pushbuttons

PUSHBUTTON	FUNCTION DESCRIPTION
<p>POWER</p>	<ul style="list-style-type: none"> ● Activate / deactivate the instrument, press and hold it for 3 seconds ● Maintenance operations, See section 4 ● Cancel an operation
<p>UP</p>	<ul style="list-style-type: none"> ● Increase the display value ● Check the instrument status the LCD will display Temp. °C, time, STEL & TWA levels, maximum level, see section 4 ● Set up the instrument parameters, see section 4
<p>DOWN</p>	<ul style="list-style-type: none"> ● Decrease the display value ● Maintenance operations, See section 4
<p>SET</p>	<ul style="list-style-type: none"> ● Confirmation of the parameters set-up ● Maintenance operations, See section 4

4.0 Operation

4.1 Activation of the RECON

To activate the detector, press the **POWER** button  and *hold* for 3 seconds.

The detector begins a self test sequence, *example* listed below

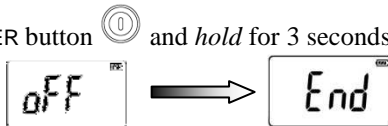
1	Display Test	The LCD displays all of the screen elements.	
2	Alarm Function Test	The audio alarm beeps, the visual alarm flashes the backlight activates briefly and the detector emits one vibration	
3	Indication of Version	Displays software version	
4	Date and Time	Displays the date and time automatically in the following order: Year, Month & Date, Hour & Minute	
5	Indication of Alarm settings	Displays Low Alarm level then High Alarm level <i>Example: CO</i>	
6	Indication of STEL and TWA For toxic instruments only	Displays STEL then TWA levels for toxic instruments only <i>Example: CO</i>	
7	Warm Up Count Down	If detector passes the self-test, it enters a short warm up count down. 3 – 30 seconds, depending on type of gas sensors installed. Then displays ambient gas reading. <i>Example: CO in clean air</i>	

Proper operation of the **RECON** requires that the instrument be zeroed. With the **RECON** ON and in clean air, the display should read 0 or 20.9 for oxygen units. See Section 4.6.

4.2 Deactivation of the RECON



To deactivate the **RECON**, press the **POWER** button  and *hold* for 3 seconds.

The **RECON** will “beep” and display:



4.3 Checking RECON Status

To activate the detector, press the **POWER** button  and *hold* for 3 seconds.














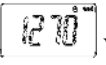













When the **RECON** has finished its start up sequence. Press **UP**  and **SET**  buttons at the same time, the display will indicate Temp., time, STEL & TWA levels(for toxic) and maximum level


4.4 RECON Operational Perimeters

In this menu, you can adjust: Time, Date, Change instrument password, Activate/Deactivate the audio associated with the pushbuttons switches and Activate/Deactivate the vibratory alarm.

With the **RECON** activated, press and *hold* the **UP**  and **DOWN**  buttons at the same time until the display 


RECON menu options press the **DOWN**  button to scroll through the option.

DISPLAY	FUNCTION	
	Press SET  button to select date and time adjustment	Use the UP  and DOWN  buttons to adjust display and SET  button to accept and advance to next option
	<p>CAUTION: If you change the password for the factory set password 1270, record your new password for future reference.</p> <p>Press SET  button to select the Change Password option.</p> <p>Press the SET  button and enter the new password.</p> <p>Use the UP  and DOWN  buttons to increment digit.</p> <p>Use SET  button to accept digit and advance the cursor.</p>	<p> Will be displayed. Then press SET  button.</p> <p> Will be displayed. Enter the Old password. When the correct Old password is entered,</p> <p> will be displayed. Then enter the new password.</p> <p>When the last digit is entered,</p> <p> will be displayed. Re-enter the new password.</p> <p>When the completed password is entered, the display will show the date information.</p>
	<i>Not Used</i>	
	Press SET  button to select Sound ON or OFF <i>Does Not affect Alarm Audio</i>	Press SET  button to accept display indication or Use the UP  button to change. Then press SET  button.
	Press SET  button to select Vibration ON or OFF	Press SET  button to accept display indication or Use the UP  button to change. Then press SET  button.

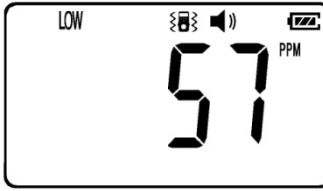






To exit with out saving the option state change, press the **POWER**  button.




NOTE: using the **UP**  button reverses the menu.

4.5 Alarms

When alarming continuously, you can press **SET**  button to turn off the audible alarm and vibration when the  and  are flashing.

The following table describes **RECON** alarms and shows examples of display for each alarm.

Alarm Type	Display
Low Alarm <ul style="list-style-type: none"> ▪ Slow tone ▪ Flash ▪ Vibration ① 	
High Alarm <ul style="list-style-type: none"> ▪ Fast tone ▪ Flash ▪ Vibration ① 	
High concentration protection ② <ul style="list-style-type: none"> ▪ Slow tone ▪ Flash 	
Sensor Fault <ul style="list-style-type: none"> ▪ Fast tone 	
STEL alarm <ul style="list-style-type: none"> ▪ Slow tone ▪ Flash ▪ Vibration ① 	
TWA alarm <ul style="list-style-type: none"> ▪ Slow tone ▪ Flash ▪ Vibration ① 	
Over F. S. alarm <ul style="list-style-type: none"> ▪ Slow tone ▪ Flash 	










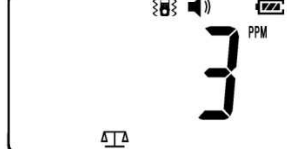
<p>Time error In this condition, the device will try to renovate it by itself. If succeeded, after start-up, it enters into the menu of time set up. Please set up the time according to the local time. If failed, the device will turn off. Please contact the supplier for repair.</p>	
<p>Memorizer error When detecting, the device will try to renovate it by itself. If failed, it will turn off. Please contact the supplier for repair.</p>	
<p>Low voltage</p> <ul style="list-style-type: none"> ▪ Modified tone alarming sound per second ▪ If the serious low voltage, the icon will flicker. Then the device can continue to work for 15 min at most. Please recharge it at a safe place, otherwise it will turn off. 	

NOTES: ① If vibration option is On - ② For Combustible gas

4.6 Automatic Zero Calibration

In clean air, if detecting value is not 0, choose this function to make the zero calibration.

With **RECON On**, press both **DOWN**  and **SET**  buttons for 1 second.

STATUS	EXAMPLE OF DISPLAY
<p>Press both DOWN  and SET  buttons. After 1 second, it advances to the next status</p>	
<p>When 0000 is displayed: </p> <p>Enter the password, factory set to 1270, by using the UP  button to increment the digit and the SET  button to accept the indicated digit and move the cursor. When the correct password is entered, the display will advance.</p> <p>NOTE: Incorrect password will exit auto zero menu.</p>	
<p>When display is stable. Press SET  button to confirm the operation. NOTE: the display may not indicate 0 prior to confirmation.</p> 	

NOTE: Not applicable for oxygen instruments.



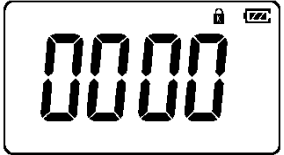



5.0 Maintenance of the RECON

To maintain proper battery function and life the Recon should be operated once a week for 6 to 8 hours and then placed on charge see Section 5.3

The **RECON** maintenacne section allows access to Zero, Calibration, Calibration target gas and alarm point adjustment menus. To enter the maintenance menus section you must start with the instrument OFF.

WARNING: As all the parameters of this mode may endanger the safety of the operator, so please perform the operation carefully

5.1 Calibration of the RECON

<p>With the instrument <i>OFF</i>, press POWER  and SET  buttons and <i>hold</i> for 5 seconds, the RECON begins a self-test. If the self-test passes, then after a short time, it indicates request for password.</p>	
<p>Enter the password, factory set to 1270, by using the UP  button to increment the digit and the SET  button to accept the indicated digit and move the cursor.</p>	


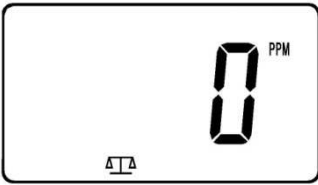
Only when the correct password is entered can the detector enter the maintenance menu.



If there is no operation or the password is wrong, the detector will be deactivated. So, please input the correct password in time.

5.1.2 Zero calibration





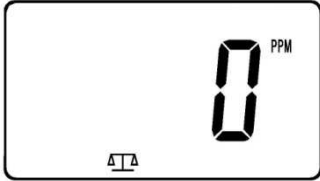

WARNING: This operation should be carried out in the clean air. Otherwise the accuracy of the detector will be affected. When entering into the next mode, if the displays shows E, the air is not clean, or the sensor is destroyed. choose another calibration location or replace the sensor.

NOTE: Not used with Recon Oxygen units

<p>At this time, if SET  button is pressed or no operation within 1 minute, the RECON will accept the present concentration as the zero point, and then enters into the mode of calibration point set up.</p>	
<p>Connect the calibration cover to the instrument, attach the regulator to the gas cylinder.</p>	

To Exit press **POWER**  button, menu will bypass the calibration step to enter into the mode of alarming level set up, press **POWER**  button advance and exit.

5.1.3 Calibration Point Adjustment

<p>In this mode, display is the last concentration of gas used to calibrate the instrument. Press UP  or Down  button to modify the display.</p> <p><i>NOTE:</i> Not used with Recon Oxygen units</p>	
<p><i>NOTE:</i> 20.9% Oxygen is the only calibration level to be used with Recon Oxygen units</p>	
<p>Press the SET  button to accept the level or within 1 minute, the RECON will accept the present concentration as the calibration gas concentration.</p> <p>The display will change to 0..→</p>	
<p>Open the valve on the regulator</p> <p>Within 30 seconds, if the RECON detects the calibration gas, it will start up the calibration date analysis procedure by itself. Continue gas flow.</p>	
<p>In 2 to 3 minutes the RECON will automatically adjust the conversion arithmetics to complete the gas response process. Then the RECON saves the best arithmetics to complete calibration.</p> <p>WARNING: <i>The RECON must self calibrate, please avoid touching any buttons, otherwise the accuracy will be effected badly.</i></p> <p>After that it enters into the L-alarm set up. Press POWER  button twice to advance and exit.</p>	

If the **RECON** can not reach half the calibration figure within 30 seconds, or the gas concentration is outside the maximum drift range of the sensor, the E icon will light and 0000 will be displayed. This means the gas is not proper for calibration or the sensor is depleted.



Verify calibration gas is correct. If correct retry calibration sequence. If failure occurs sensor may need to be replaced.


<p>Remove calibration cover from instrument.</p>	
<p>To exit calibration menu.</p> <p>Press SET  button 3 times and then the POWER  button 4 times.</p>	<p>Press the SET    button then</p> <p>Press POWER     button</p>



5.2 Alarm Levels Adjustment of the RECON

5.2.1 Set up of L-alarm (Low Alarm)

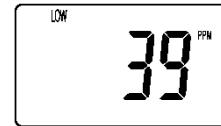
With the **RECON Off** press and *hold* the **POWER**  and **SET**  buttons until unit activates.

When 0000 is displayed, enter the password, factory set to 1270, by using the **UP**  button to increment the digit and the **SET**  button to accept the indicated digit and move the cursor. When the correct password is entered, the display will advance.




Press the **POWER**  button to advance to alarm set menu.

In this mode, the L-alarm level can be adjusted. Press **UP**  or **Down**  button to adjust the flickering figure according to your need, and then press **SET**  button to complete the set up. After that, it enters the H-alarm set up.

NOTE: The display will not allow an unacceptable alarm level.



5.2.2 Set up of H-alarm (High Alarm)

01In this mode, the H-alarm level can be adjusted. Press **UP**  or **Down**  button to adjust the flickering figure according to your need, and then press **SET**  to complete the set up. After that the detector will automatically turn off.

NOTE: The display will not allow an unacceptable alarm level.



5.3 Battery Charging

When the battery voltage is low, the **RECON** will not function properly. To recharge the batteries of the **RECON**: The **RECON** must be *Off*, connect the AC connector plugs of the charger to a 110VAC or 220VAC outlet and plug the charging cable into the **RECON**. The detector will activate automatically and indicates that it is being charged. When the charging cycle is completed, the display will indicate full charge.

WARNING: **DO NOT** start the battery charge process with the **RECON** power on; otherwise the charge speed will be adversely affected. Always charge the battery in normal ambient air. Do not charge the **RECON** in a hazardous area to be monitored, to avoid fire or explosion. Disconnect the charger after 24 hours, failure to do so will damage the battery.

Typical expected battery life and time to recharge:

RECON for CO, H2S, O2	30+ Hours, non-alarm condition: Recharge time: approximately 4 – 6 hours
RECON for %LEL CH4	8 hours, non-alarm condition: Recharge time: approximately 6 hours

NOTE: To maintain proper battery function and life the Recon should be operated once a week for 6 to 8 hours and then placed on charge.

5.4 Sensor Replacement

Sensor life in the **RECON** is typically: 2 years for Carbon Monoxide & Hydrogen Sulfide and 1year for Oxygen and Combustible.

The sensor needs to be replaced when the **RECON** can no longer be calibrated or if the sensor becomes erratic.

Contact **ENMET** for sensor replacement information.

Table1: RECON Factory Set Parameters

Model	Gas	Range	Low Alarm	High Alarm	Low Alarm Range	High Alarm Range	TWA	STEL	Cal Gas
RECON/EX	Methane	0-100%LEL	10%LEL	50%LEL	10%LEL – 25%LEL	25%LEL – 80%LEL	N/A	N/A	50%LEL
RECON/HS	Hydrogen Sulfide	0-100ppm	10ppm	15ppm	5ppm – 15ppm	15ppm – 30ppm	10ppm	15ppm	40ppm
RECON/CO	Carbon Monoxide	0-1000ppm	35ppm	100ppm	25ppm – 100ppm	100ppm – 500ppm	25ppm	200ppm	500ppm
RECON/O2	Oxygen	0-30%vol	19.5%vol	23.5%vol	16%vol – 19.5%vol	22.5%vol – 24%vol	N/A	N/A	20.9%

6.0 Specifications and Troubleshooting Tips

6.1 Specifications

Electrical Power	Working Voltage	3.6VDC Lithium battery, 1200 mAh Rechargeable
	Working time continuous, non-alarm conditions	Combustible gas: Approximately 8 hours Toxic gas: Approximately 30+ hours
	Charge time	4 to 6 hours
Operation	Temperature:	-20°C to +50°C
	Relative Humidity	5 to 95% RH, non-condensing
Mechanical	Dimensions:	2.4 x 3.9 x 1.3 inches (60 x 100 x 33 mm)
	Weight:	5 oz. (140g) including battery
	Ingress Protection	IP 65
	Approval	Designed to be intrinsically safe

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

6.2 Troubleshooting Tips

MALFUNCTION	POSSIBLE REASONS	SOLUTIONS
Unable to Turn on the detector	low voltage	Charge Battery
	Detector Fault	Contact ENMET Corporation
	Circuit malfunction	Contact ENMET Corporation
No reaction to the tested gas	Exhausted Sensor	Replace Sensor
	Circuit malfunction	Contact ENMET Corporation
Inaccurate indication	Exhausted sensor	Replace the sensor
	Overdue Calibration	Calibrate
Wrong time display	Exhausted battery	Charge and reset the time
	Electromagnetic disturb	Reset the time
Zero calibration function failed	Too much drift	Calibrate or replace the sensor

7.0 Accessories Parts

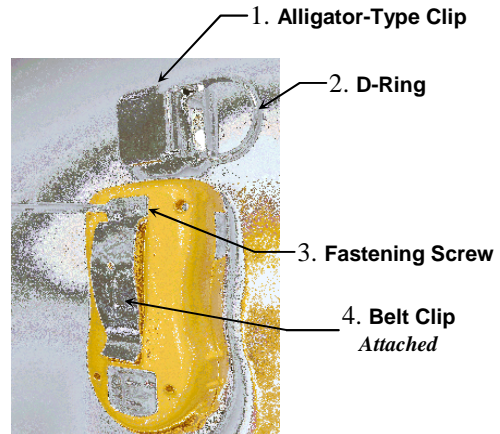
Recon is supplied with a belt clip(4) and an alligator-type clip(1) with a D-ring(2). These can be attached to the instrument as shown below.



010101Belt Clip & Alligator



Type Clip Attached



Alligator-Type Clip

8.0 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/FedEx Ground. 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** Corporation.

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

Manual Part Number

80006-018

April, 2008

MCN-405, 07/18/08

MCN-410, 12/03/08

MCN-415, 04/02/09

MCN-430, 04/13/10

MCN-440, 08/23/10

Notes:



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 evaluation fee, even if returned unrepared. 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 unrepared 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 Card Code
 American Express _____
Card number Expiration Card Code

Name as it appears on the credit card _____

Return Shipping Method:

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

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:** \$ _____