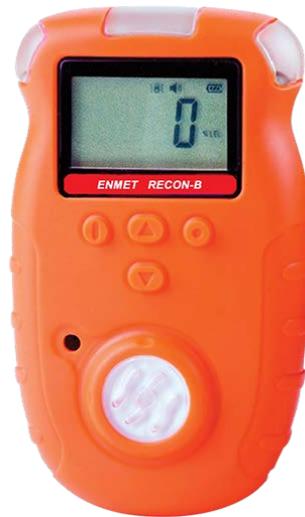


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**ENMET**  
Creative Gas Detection Solutions



## **Recon B Series Operation and Maintenance Manual**

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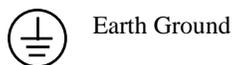
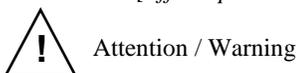
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**Reference Information:**

**NOTE:** *[important information about use of instrument]*  
**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 **RECON/B SERIES** 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/B Series**, 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/B Series** incorporates a special high strength, anti-slip rubber case providing anti slip handle ability. The **Recon/B Series** has an ingress protection rating of 65.

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

### 1.1 Unpack

Unpack the **Recon/B Series** 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 **ENMET** 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. Please 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 <b>Recon/B Series</b> : <ul style="list-style-type: none"> <li>▪ Instrument</li> <li>▪ Charger</li> <li>▪ Screwdriver</li> <li>▪ Manual</li> </ul>	<b>ENMET</b> 680 Fairfield Court Ann Arbor, MI 48108 734-761-1270 Fax 734-761-3220 Toll Free: 800-521-2978
--	--

### 1.2 Check Order

Check the contents of the shipment against the purchase order. Verify that the **Recon/B Series** is received as ordered. Each **Recon/B Series** 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

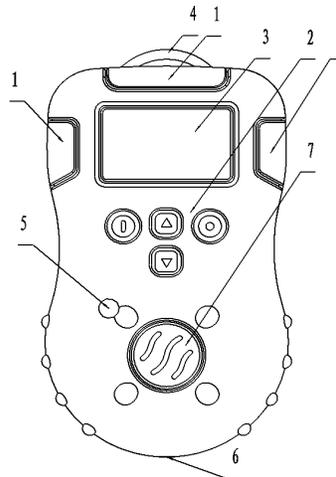
Each **Recon/B Series** is serialized. These numbers are on tags on the equipment and are on record in an **ENMET** database.

## 2.0 Features

### 2.1 Recon/B Series 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 <b>Recon/B Series</b> LED's activate when alarm thresholds are exceeded
2	Pushbuttons	<b>POWER, UP, SET</b> and <b>DOWN</b> Buttons See section 3.1 for description of each pushbutton
3	Display	The <b>Liquid Crystal Display (LCD)</b> allows messages to be read clearly: <ul style="list-style-type: none"> <li>• <b>4 digits</b> (7 segments), for displaying the measurement</li> <li>• <b>pictograms</b> symbols used to indicate supplementing the audio and visual alarms relating to the exceeding of thresholds, battery faults, maintenance mode etc....</li> </ul>
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 <b>Recon/B Series</b> <ul style="list-style-type: none"> <li>• Type varies depending on the target gas</li> </ul>



Front View

Figure 1: Recon B Series 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 B Series Display

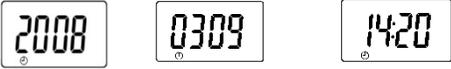
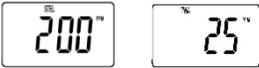
### 3.0 Description of Pushbuttons

Push Button	Function Description
<p><b>POWER</b></p>	<p>Activate / deactivate the instrument, press and hold it for 3 seconds</p> <p>Maintenance operations, See section 4</p> <p>Cancel an operation</p>
<p><b>UP</b></p>	<p>Increase the display value</p> <p>Check the instrument status the LCD will display Temp. °C, time, STEL &amp; TWA levels, maximum level, see section 4</p> <p>Set up the instrument parameters, see section 4</p>
<p><b>DOWN</b></p>	<p>Decrease the display value</p> <p>Maintenance operations, See section 4</p>
<p><b>SET</b></p>	<p>Confirmation of the parameters set-up</p> <p>Maintenance operations, See section 4</p>

## 4.0 Operation

### 4.1 Activation of the Recon B Series

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  Year      Month & Date      Hour & minute
5	Indication of Alarm settings	Displays Low Alarm level then High Alarm level <i>Example: CO</i>  L-alarm      H-alarm
6	Indication of STEL and TWA For toxic instruments only	Displays STEL then TWA levels for toxic instruments only <i>Example: CO</i>  STEL      TWA
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 B Series** requires that the instrument be zeroed. With the **Recon/B Series** 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 B Series

To deactivate the **Recon/B Series**, press the **POWER** button  and *hold* for 3 seconds. The **Recon/B Series** will “beep” and display:



### 4.3 Checking RECON/B SERIES Status

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

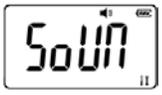
When the **Recon/B Series** has finished its startup sequence. Press **UP**  and **SET**  buttons at the same time, the display will indicate Temp., time, STEL & TWA levels (for toxic) and maximum level

### 4.4 RECON/B SERIES 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/B Series** activated, press and *hold* the **UP**  and **DOWN**  buttons at the same time until the display 

**Recon/B Series** menu options press the **DOWN**  button to scroll through the option.

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

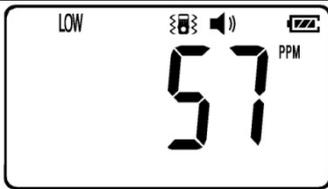
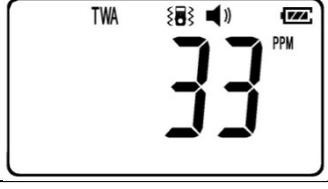
To exit without saving the option state change, press the **POWER**  button.

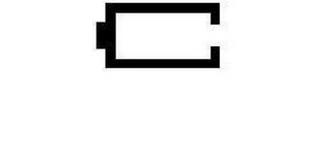
**NOTE:** using the **UP**  button reverses the menu.

## 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/B Series** alarms and shows examples of display for each alarm.

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

<p><b>Time error</b>                  In this condition, the device will try to renovate it by itself. If succeeded, after start-up, it enters 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><b>Memorizer error</b>                  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><b>Low voltage</b></p> <ul style="list-style-type: none"> <li>▪ Modified tone alarming sound per second</li> <li>▪ 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.</li> </ul>	

NOTES: ← If vibration option is On - ↑ 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/B Series On**, press both **DOWN**  and **SET**  buttons for 1 second.

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

NOTE: Not applicable for oxygen instruments.

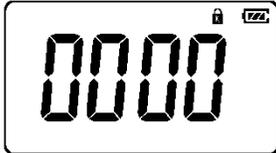
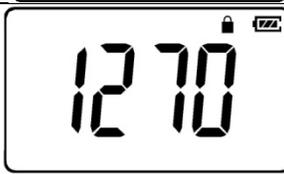
## 5.0 Maintenance of the Recon/B Series

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/B Series** maintenance 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/B Series

<p>With the instrument <i>OFF</i>, press <b>POWER</b>  and <b>SET</b>  buttons and <i>hold</i> for 5 seconds, the <b>RECON/B SERIES</b> 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 <b>UP</b>  button to increment the digit and the <b>SET</b>  button to accept the indicated digit and move the cursor. A display of <b>30</b> will appear and count down to <b>0</b>.</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 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 <b>SET</b>  button is pressed or no operation within 1 minute, the <b>Recon/B Series</b> 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 <b>UP</b>  or <b>Down</b>  button to modify the display.</p> <p><b>NOTE:</b> <i>Not used with Recon Oxygen units</i></p>	
<p align="center"><b>NOTE:</b> <i>20.9% Oxygen is the only calibration level to be used with Recon Oxygen units</i></p>	
<p>Open the valve on the regulator Within 30 seconds, if the <b>Recon/B Series</b> detects the calibration gas, it will start up the calibration data analysis procedure by itself. Continue gas flow.</p>	<p align="center">The Display will indicate gas level as gas is detected</p>
<p>In 2 to 3 minutes the <b>Recon/B Series</b> will automatically adjust the conversion arithmetics to complete the gas response process. Then the <b>Recon/B Series</b> saves the best arithmetics to complete calibration.</p> <p><b>WARNING:</b> <i>The RECON/B SERIES 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 <b>POWER</b>  button twice to advance and exit.</p>	

If the **Recon/B Series** cannot 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. Press <b>SET</b>  button 3 times and then the <b>POWER</b>  button 4 times.</p>	<p>Press the <b>SET</b>    button then Press <b>POWER</b>     button</p>

## 5.2 Alarm Levels Adjustment of the Recon/B Series

### 5.2.1 Set up of L-alarm (Low Alarm)

With the **Recon/B Series** *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.

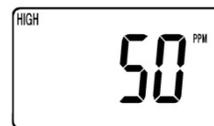
**NOTE:** The display will not allow an unacceptable alarm level.



### 5.2.2 Set up of H-alarm (High Alarm)

In 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/B Series** will not function properly.

To recharge the batteries of the **Recon/B Series**: The **Recon/B Series** 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/B Series**. 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/B Series** power on; otherwise the charge speed will be adversely affected. Always charge the battery in normal ambient air. Do not charge the **Recon/B Series** 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:

<b>Recon/B Series</b> CO, H2S, O2	30+ Hours, non-alarm condition: Recharge time: approximately 4 – 6 hours
<b>Recon/B Series</b> 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/B Series** is typically: 2 years for Carbon Monoxide & Hydrogen Sulfide and 1 year for Oxygen and Combustible.

The sensor needs to be replaced when the **Recon/B Series** can no longer be calibrated or if the sensor becomes erratic. Contact **ENMET** for sensor replacement information.

**Table 1: Recon/B Series Factory Set Parameters**

Model	Gas	Range	Low Alarm	High Alarm	TWA	STEL	Cal Gas
Recon/NH3-B	Ammonia	0-100ppm	25ppm	50ppm	25ppm	35ppm	
Recon/CO-B	Carbon Monoxide	0-1000ppm	35ppm	100ppm	25ppm	200ppm	500ppm
Recon/H2-B	Hydrogen	0-1000ppm	35ppm	250ppm	N/A	N/A	
Recon/HS-B	Hydrogen Sulfide	0-100ppm	10ppm	15ppm	10ppm	15ppm	40ppm
Recon/O2-B	Oxygen	0-30% vol	19.5% vol	23.5% vol	N/A	N/A	20.9%
Recon/SO-B	Sulfur Dioxide	0-100ppm	2ppm	5ppm	2ppm	5ppm	
Recon/EX-B	Methane	0-100%LEL	10%LEL	50%LEL	N/A	N/A	50%LEL
Recon/EX-B	Propane	0-100%LEL	10%LEL	50%LEL	N/A	N/A	

## 6.0 Specifications and Troubleshooting Tips

### 6.1 Specifications

<b>Electrical Power</b>	Working Voltage	3.6VDC Lithium battery, 1200 mAh Rechargeable
	Working time continuous, non-alarm conditions	Combustible gas: Approximately 8 hours Toxic gas: Approximately 300 hours
	Charge time	4 to 6 hours
<b>Operation</b>	Temperature:	-20°C to +50°C
	Relative Humidity	5 to 95% RH, non-condensing
<b>Mechanical</b>	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 <b>ENMET</b>
	Circuit malfunction	Contact <b>ENMET</b>
No reaction to the tested gas	Exhausted Sensor	Replace Sensor
	Circuit malfunction	Contact <b>ENMET</b>
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 and Replacement Parts

### 7.1 Replacement Sensor part numbers

Sensor, % LEL Combustible Gasses	02542-005
Sensor, CO	02542-1200
Sensor, H <sub>2</sub> S	02542-0200
Sensor, Oxygen	02542-1100
Sensor, H <sub>2</sub>	02542-1500
Sensor, NH <sub>3</sub>	02542-2400
Sensor, SO <sub>2</sub>	02542-0500

### 7.2 Parts and Accessories

Aspirator*, with 27-inch probe and 3-foot hose (Not suitable for reactive gas, H <sub>2</sub> S, NH <sub>3</sub> , SO <sub>2</sub> )	02602-010
Aspirator*, with 12-foot hose (Not suitable for reactive gas, H <sub>2</sub> S, NH <sub>3</sub> , SO <sub>2</sub> )	02602-011
Motorized Sample Pump*, with 15-foot hose and 8-inch probe (for Recon/4 & Recon-B)	03700-053
Manual, Motorized Sample Pump	80021-025
Sensor Cover Assembly, for Recon-B	02543-029
Charger, 100-240 VAC, American style plug	02615-001
Manual, Recon-B Series	80006-023

\*Sensor Cover Assembly 02543-029 sold separately.

### 7.2 Calibration Equipment and Gas

Gas Regulator Assembly*, for 34-liter steel gas cylinder (CO & O <sub>2</sub> )	02506-004
Gas Regulator Assembly*, for 34-liter aluminum gas cylinder (CO & O <sub>2</sub> )	02606-002
Sensor Cover Assembly, for RECON-B	02543-029
Cal/Zero Gas, 34-liter steel gas cylinder, 20.9% Oxygen, O <sub>2</sub>	03296-209
Calibration Gas, 34-liter steel gas cylinder, 50%LEL Methane, CH <sub>4</sub>	03220-050
Calibration Gas, 34-liter steel gas cylinder, 50%LEL Propane, C <sub>3</sub> H <sub>8</sub>	03221-050
Calibration Gas, 34-liter steel gas cylinder, 500ppm Carbon Monoxide, CO	03219-500
Calibration Gas, 34-liter steel gas cylinder, 500ppm Hydrogen, H <sub>2</sub>	03227-500
Calibration Gas, 34-liter aluminum gas cylinder, 40ppm Hydrogen Sulfide, H <sub>2</sub> S	03314-040
Calibration Gas, 34-liter aluminum gas cylinder, 50ppm Ammonia, NH <sub>3</sub>	03318-050
Calibration Gas, 34-liter aluminum gas cylinder, 10ppm Sulfur Dioxide, SO <sub>2</sub>	03315-010
Case, Calibration Equipment Holds: Gas Regulator, Calibration Adapter and up to two 34 liter Cal Gas Cylinders	73083-000

\*Sensor Cover Assembly 02543-029 sold separately.

## 8.0 Terms and Conditions

### 8.1 Ordering Information

Address orders to:

**ENMET**  
Attention: Customer Service Department  
680 Fairfield Court  
Ann Arbor, MI 48108

Email Orders: [orderentry@enmet.com](mailto:orderentry@enmet.com)

Phone: 734-761-1270

Fax: 734-761-3220

You may also contact our customer service department by email [info@enmet.com](mailto:info@enmet.com). **MINIMUM ORDER IS \$50.00.**

### 8.2 Delivery

Unless Seller otherwise specifies, delivery will be made: FOB Ann Arbor, MI and/or FOB Bowling Green, KY. Title and risk of loss shall pass to Buyer at that point. Shipping and handling charges will be Prepaid and Added to Buyer's invoice. Buyer may request shipping be charged to their own account with a preferred carrier. Seller shall have the right to choose means of transportation and to route shipment when specific instructions are not included with Buyer's order. Seller agrees to deliver the goods and services, within the time, in accordance with specifications, at the prices specified on the face hereof. Buyer's orders to this quotation are not subject to cancellation or deferment of delivery without indemnification of loss to the Seller resulting therefrom. Seller shall not be liable to Buyer for any loss or damage sustained on account of this delay or nonperformance due to causes beyond Seller's control and without his fault or negligence. Where performance of the terms here is contingent upon timely delivery of goods or services by the Buyer and such delivery is in default, Seller shall be indemnified for any damage or loss resulting therefrom, and/or by extension of Seller's delivery commitment, as applicable.

### 8.3 Payment Terms

Payment Terms are Net 30 Days from the date of shipment from Seller unless otherwise noted. All shipping and handling costs will be charged to Buyer on a Prepaid and Add basis. Buyer has the option of paying for shipping by charging its own account with a carrier

### 8.4 Warranty Information and Guidelines

The Seller 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. The warrant covers both parts and labor excluding calibration and expendable parts such as filters, detector tubes, batteries, etc. If the inspection by the Seller 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. The Seller shall not be liable for any loss or damage caused by the improper use or installation of the product. The Buyer indemnifies and saves harmless the Seller with respect to any loss or damages that may arise through the use by the Buyer or others of this equipment. This warranty is expressly given in lieu of all other warranties, either expressed, implied or statutory, including that of merchantability, and all other obligations, or liabilities of ENMET, LLC for damages arising out of or in connection with the use or repair or performance of the product. In no event shall ENMET, LLC, be liable for any indirect, incidental, special or consequential damages or for any delay in the performance by ENMET, LLC, which may arise in connection with this equipment. ENMET neither assumes nor authorizes any representatives or other persons to assume for it any obligation or liability other than that which is set forth herein. Buyer agrees to indemnify and save harmless Seller for any damage or loss from lawsuits against Seller by reason of manufacture of sale of materials, parts, or use of processes resulting from Buyer's design specifications. Any patent, design, pattern, tool, die, jig, fixture, drawing, test equipment, or process furnished by Seller; whether possessed by the Seller before the date of this quotation, or devised or acquired by Seller during performance of the terms of this quotation, shall remain the property of the Seller except by specific stipulation on the face hereof. Seller reserves the right, without liability, for damage or loss, to destroy Buyer's drawings, specifications, patterns and special tools supplied by Buyer for performance of the terms on the face hereof, unless Buyer gives notice of the disposition of such items.

### 8.5 Return Policy

**All returns for credit must be approved in advance by ENMET, LLC.** Such returns are subject to a minimum \$50.00 or 20% restocking charge, whichever is greater. **Approval of equipment for return is totally at the discretion of ENMET, LLC.** All requests for return/exchange must be made no later 30 days of the original shipping date from ENMET. The actual amount of any resulting credit will not be determined prior to a complete inspection of the equipment by ENMET. Calibration gas cylinders cannot be returned or restocked.

## 9.0 Instructions for Returning an Instrument for Service

Contact the ENMET Service Department for all service requests.

Phone: 734-761-1270

Email: [repair@enmet.com](mailto:repair@enmet.com)

Fill out the “Service Request Form” found at the end of this manual and return with your instrument for all needs. Please send your instrument for service to the site in which the product was purchased. A new “Service Request Form” may be requested if the one found in the manual is not available. All instruments should be shipped prepaid to ENMET.

Address for Service:

Michigan Location:

**ENMET**  
Attention: Service Department  
680 Fairfield Court  
Ann Arbor, MI 48108

Kentucky Location:

**ENMET**  
62 Corporate Court  
Bowling Green, KY 42103

Providing the “Service Request Form” assists in the expedient service and return of your unit and 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 and the customer will be expected to pay the evaluation fee. Serviced 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.*

For Warranty Repairs, please reference **ENMET's** “Warranty Information and Guidelines” (found earlier in this section).

**Mailing/Shipping Address:**

ENMET  
680 Fairfield Court  
Ann Arbor, MI 48108  
[repair@enmet.com](mailto:repair@enmet.com)



**Phone: 734.761.1270**  
**Fax: 734.761.3220**

**Service Request Form**

**Product Name or Number:**

**Product Serial Number:**

**Describe Problem or Needed Service:**

**Warranty Claim?**  Yes  No

**CUSTOMER INFORMATION**

**Billing Address:**

**Shipping Address:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Contact Name:**

**Phone #:**

**Email:**

**Fax #:**

**PO/Reference**

**#:**

**PAYMENT METHOD**

- COD  VISA/MasterCard  American Express

Card Number

Exp. Date

Security Code:

**Name as it Appears on**

**Card:**

**RETURN SHIPPING METHOD**

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

UPS Account #: \_\_\_\_\_

- FedEx Ground  FedEx Air Express Saver  FedEx Air Overnight Std.  FedEx Air 2 Day  FedEx Air Overnight P-1

FedEx Account #: \_\_\_\_\_

Insure Shipment:  Yes  No

Insurance \$  
Amount: \_\_\_\_\_