LIMITATIONS OF PROPANE GAS ALARMS

THIS UNIT will not work without power. Examples causing no power are: Cut lead wires, faulty circuit connection, a blown or missing fuse, improper supply (+) or ground (-) connections.

This alarm will only indicate the presence of propane gas at the sensor. Explosive gas may be present in other areas.

This alarm may not be heard. The alarm loudness meets or exceeds regulatory standards. However, if this alarm is in remote locations or behind closed doors the alarm may not be heard. Persons who are hard of hearing may not hear the alarm.

This alarm is not smoke or fire alarm. It is not suitable as a smoke or fire alarm.

This alarm is not suitable for installation in hazardous areas as defined in the National Electrical Code.

HOW TO TAKE CARE OF YOUR ALARM

To keep your alarm in good working order, you must;

• Test the alarm weekly. (See “TEST PROCEDURE”)
• Observe the color of the indicator light on the front of the unit regularly. (See “Operating Instructions”)
• Vacuum the dust off the alarm cover weekly, (more frequently in dusty locations), using the soft brush attachment of your vacuum.
• Clean the alarm cover weekly. Hand wash using a damp cloth, or paper towel. Dry with a soft cloth.
• DO NOT SPRAY CLEANING AGENTS OR WAXES directly onto the front panel. This action may damage the sensor, cause an alarm or cause an alarm malfunction.

WHERE TO INSTALL GAS ALARMS

This alarm is UL® listed for installation in recreational vehicles. Install this alarm near sources of a potential gas leak. Some potential sources are a furnace, water heater, stove or oven. If potential sources of a gas leak are in separated areas, MTI recommends installing an alarm in each area. See Figure 1 and 2.

CAUTION: Propane is heavier than air. For propane gas detection, install this alarm from 4 to 20 inches off the floor.

WARNING WHERE NOT TO INSTALL THIS GAS ALARM. See Figure 3.

• BEHIND FURNITURE, DRAPE S, IN CLOSETS OR AREAS THAT WILL BLOCK AIR FLOW TO THE ALARM.
• WITHIN 12 INCHES OF EXTERIOR DOORS, WINDOWS, HEATING OR RETURNS VENTS, OR OTHER DRAFTY AREAS.
• IN OR ON OUTSIDE WALLS, OR WITHIN 12 INCHES OF CORNERS.
• TO A WALL SWITCH CONTROLLED POWER LINE, GROUND FAULT CIRCUIT OR CIRCUIT BREAKER.

NOTE: Older homes and RVs may have little or no insulation and therefore are more drafty. Carefully consider mounting locations.

INSTALLATION INSTRUCTIONS

Power Supply 12 vDC: Connect the alarm to a properly fused circuit. All connections must be in accordance with the National Electrical Code.

CAUTION: ONLY USE UL® APPROVED CONNECTORS DISCONNECT POWER UNTIL THE INSTALLATION IS COMPLETE.

REFER TO “WHERE TO AND NOT TO INSTALL GAS ALARM”.

30-441: Drill a ¼” hole. Connect the RED (+) power lead to the fused circuit. Connect the Black lead to Ground (-). Fasten the unit to the wall using the two screw holes on the case.

30-442: This model requires a 1” clearance to recess the case. Cut a 5 3/8” W x 2” H hole, connect the RED (+) power lead to the fused circuit. Connect the BLACK lead to Ground (-). Fasten the unit to the wall using the two screw holes located on the ends of the case. Reconnect the power supply.

IMPORTANT:

This manual contains important information. Purchasers who install this UNIT for use by others must leave this manual with the owner. Do not throw out.
OPERATION

WARNING: This alarm cannot detect propane gas or sound the alarm for two minutes after it has been turned on.

POWER ON: When powered the LED color will be Green (Operational).

TESTING

WARNING: DO NOT USE A CIGARETTE LIGHTER. THE BUTANE GAS MAY DAMAGE THE SENSOR.

WARNING: TEST THE OPERATION OF THIS ALARM AFTER THE RECREATIONAL VEHICLE HAS BEEN IN STORAGE, BEFORE EACH TRIP AND AT LEAST ONCE PER WEEK DURING USE.

1. Simply press the Test/Mute switch at any time the alarm is powered. The LED should turn RED and the alarm should sound. Release the switch.

IMPORTANT - If this alarm does not test properly return it immediately for repair or replacement.

ALARM SIGNAL

The Green LED will turn Red and the audible signal will activate whenever the level of propane gas exceeds the alarm threshold. The unit will continue to alarm until the gas clears or the Mute switch is pressed. See (Procedures Take During An Alarm and Alarm Signal Mute sections)

ALARM SIGNAL MUTE

Press the TEST-MUTE button when the detector is in alarm. 1. The audible alarm signal will stop, 2. the RED Alarm LED will remain on until the gas has dropped below the alarm point at which time the LED will turn Green, 3. If dangerous gas levels remain after the end of the Mute cycle (about 90 seconds) the alarm will re-activate.

A fault in the sensors operation will activate malfunction alarm. The LED will turn Yellow and the sounder activate.

IMPORTANT: IN THE EVENT OF A MALFUNCTION ALARM REMOVE THE ALARM IMMEDIATELY AND RETURN IT FOR REPAIR OR REPLACEMENT.

LOW POWER OPERATION

This alarm will operate normally down to 8 vdc. Do not operate this alarm below 8 vdc.

PROCEDURES TO TAKE DURING AN ALARM

1. TURN OFF ALL GAS APPLIANCES, (STOVE, HEATERS, FURNACE), EXTINGUISH ALL FLAMES AND SMOKING MATERIAL. EVACUATE THE UNIT, LEAVE DOORS AND WINDOWS OPEN.

2. TURN OFF THE PROPANE TANK VALVE.

3. DETERMINE AND REPAIR THE SOURCE OF THE LEAK. SEEK PROFESSIONAL HELP IF NECESSARY.

CAUTION - DO NOT RE-ENTER UNTIL THE PROBLEM IS CORRECTED.

LED AND SOUNDER SIGNALS

<table>
<thead>
<tr>
<th>Color</th>
<th>Alarm Operation</th>
<th>Sounder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid Green</td>
<td>Normal</td>
<td>Off</td>
</tr>
<tr>
<td>Solid Red</td>
<td>Alarm</td>
<td>Continuous</td>
</tr>
<tr>
<td>Solid Yellow</td>
<td>Malfunction</td>
<td>Continuous</td>
</tr>
</tbody>
</table>

TROUBLE SHOOTING GUIDE

MALFUNCTION ALARM

PROBLEM

CAUSE AND SOLUTION

LED OFF

1. FAULTY WIRE CONNECTION
2. REVERSE POLARITY
3. BAD OR MISSING FUSE
4. DEAD BATTERY

NO SOUND IN TEST

1. RETURN IMMEDIATELY

NO RED LED IN TEST

1. RETURN IMMEDIATELY

ALARMS AFTER WARM UP WITH OUT GAS PRESENT

1. CONTAMINATED SENSOR
2. PRESS TEST MUTE SWITCH
3. WAIT 90 SECONDS

AUDIBLE ALARM WITH YELLOW LED

1. RETURN IMMEDIATELY

SPECIFICATIONS

- POWER SUPPLY: 12 vDC
- OPERATIONAL VOLTAGE: 8-16 vDC
- NOMINAL CURRENT DRAW: 75 mA @ 12 vDC
- OPERATIONAL TEMPERATURE: -31°F to 150°F
- RELATIVE HUMIDITY: 15% to 93%
- AUDIBLE OUTPUT: 85 db @ 10 feet
- VISUAL OPERATIONAL SIGNAL: GREEN
- VISUAL ALARM SIGNAL: RED
- VISUAL MALFUNCTION SIGNAL: YELLOW
- ALARM TRIGGER: < 25% of the LEL of Propane
- CASE DIMENSIONS: 30-442: 6 3/8” W x 2 7/8” H x 1” D, 30-441: 6” W x 1 7/8” H x 1 1/4” D
- CASE MATERIAL: Geon 3700
- FLAME RATING: 94 SV
- WARRANTY: 1 Year Limited
- TESTING LABORATORY: Underwriters Laboratories
- STANDARD UL 1484, Rev.2 Gas Alarms For Residential and RV Use

LIMITED WARRANTY

MTI INDUSTRIES, INC. Warrants to the original purchaser that this alarm will be free from defects of material or workmanship for a period of one (1) year. If defective in original materials or workmanship and returned, delivery costs prepaid, MTI INDUSTRIES, INC., will repair or replace this product free of charge.

LIMITS OF LIABILITY

Repair or replacement is your exclusive remedy under this limited warranty or any other warranty (including any implied warranty of merchantability for a particular purpose). Any and all implied warranties of merchantability or fitness for a particular purpose is limited to the warranty period from the original date of purchase. MTI INDUSTRIES, INC., its dealers and distributors shall in no case be responsible or in any way liable for any incidental or consequential damages for any reason. Some states do not allow the limitation or exclusion of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. This warranty gives you specific rights, and you may also have other rights that may vary from state to state.

WARRANTY RETURN POLICY

This alarm requires an authorization number (RA) for repair or replacement. Call MTI for a RA number. Pack the alarm carefully in a padded container. Include the RA number, an explanation of the problem, the original dated sales receipt, and your return address. Send, shipping prepaid, to: MTI Industries, Inc., 31632 N. Ellis Dr. #301 Volo, IL 60073. Customer Service Number: 800-383-0269 E-Mail info@mtiindustries.com www.Safe-T-Alert.com © 2001 MTI INDUSTRIES, INC.