

MTI INDUSTRIES
PROPANE GAS ALARM
MODEL 30-442 AND 30-441
USER'S MANUAL

IMPORTANT
PLEASE READ CAREFULLY
 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.



Manual #304298-3
 SINGLE STATION PROPANE ALARM SUITABLE
 FOR USE IN RECREATIONAL VEHICLES

FILE NO. 151449

IMPORTANT: Always follow the operation and safety instructions of the gas appliance manufacturer.



WARNING

CONNECT ONLY TO WIRING THAT CANNOT BE TURNED OFF BY A WALL SWITCH OR GROUND FAULT PROTECTOR.

IMPORTANT: Failure to follow the installation instructions may void the warranty.

**SPECIAL FEATURES OF THE
 MTI INDUSTRIES™ GAS ALARMS**

This MTI Industries™ propane gas alarm is listed by Underwriters Laboratories, Inc. for use in recreational vehicles. Other explosive gases detected but not tested by Underwriters Laboratories include Acetone, Alcohol, Butane, Gasoline all of which you may have in your Trailer, Truck Camper, Van Camper or Motorhome.

When dangerous levels of propane gas (< 25% LEL) are detected the alarm signal will activate. A reset/mute circuit can be activated to temporarily silence the alarm while you ventilate.

RECOMMENDED WIRE GAUGE.....14 GA.
 POWER SUPPLY.....12 vDC
 WIRE COLOR CODE: RED SUPPLY (+)
 BLACK GROUND (-)
 FUSED CIRCUIT MAXIMUM.....15 AMP



WARNING

**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, DRAPES, 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.

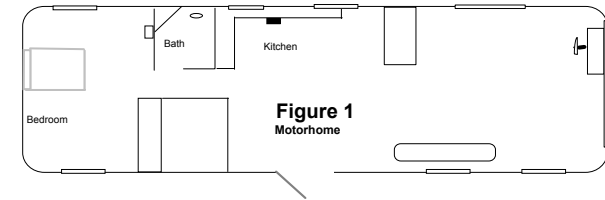
CAUTION: ONLY USE UL® APPROVED CONNECTORS DISCONNECT POWER UNTIL THE INSTALLATION IS COMPLETE

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

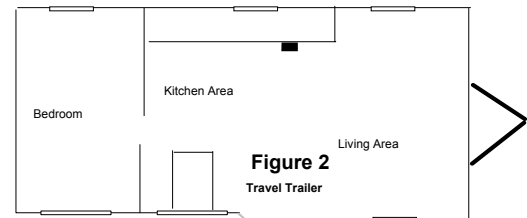
30-441: Drill a ¼” hole. Connect the RED(+) power lead to the fused circuit. Connect the Black lead to

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.

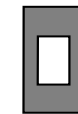


■ Alarm Location For Minimum Protection

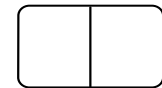


■ Alarm Location For Minimum Protection

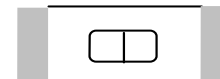
**DO NOT INSTALL
 Figure 3**



Do not install within 12" of a door



Do not install within 12" of a window that can open



Do Not install behind drapes or furniture



Do not install within 12" of vents

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.

MALFUNCTION ALARM

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

Color	Alarm Operation	Sounder
Solid Green	Normal	Off
Solid Red	Alarm	Continuous
Solid Yellow	Malfunction	Continuous

TROUBLE SHOOTING GUIDE

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 PRESS TEST MUTE SWITCH AND WAIT 90 SECONDS
AUDIBLE ALARM WITH YELLOW LED NO RESET	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
	-35° C to 66° C
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 5V
WARRANTY	1 Year Limited
TESTING LABORATORY	Underwriters Laboratories
STANDARD UL 1484, Rev.2 Gas Alarms For Residential and RV Use	

LIMITED WARRANTY

LIMITED PRODUCTS 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 WARRANTY

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 or 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
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