

ALARM MUTE

This feature is activated by pressing the TEST/MUTE button when the detector is in alarm. 1. The Red LED will continue flash and the alarm will beep every 30 seconds, until the gas level has dropped to a safe level then, 2. The LED will flash Green until the end of the Mute cycle and/or, 3. Return to Red and beep 4 times if high gas levels return before the end of the mute cycle, then, 4. Return to normal (solid Green) or resound the alarm in approximately 2 minutes if dangerous levels of gas remain in the area.

MALFUNCTION ALARM

The microprocessor will activate the malfunction alarm when it detects a fault in the detectors operation. The LED will alternately flash Red and Green, while the sounder beeps once every 15 seconds. The Reset switch will not function. REMOVE THE DETECTOR IMMEDIATELY AND RETURN IT FOR REPAIR OR REPLACEMENT.

LOW POWER OPERATION

This detector will operate normally down to 102 vAC. Do not operate this detector below 102 vAC.

TROUBLE SHOOTING GUIDE

PROBLEM	CAUSE/SOLUTION
NO LED	1. FAULTY POWER CONNECTIONS, REVERSE POLARITY, BAD OR MISSING FUSE OR DEAD BATTERY.
NO SOUND IN TEST	1. DEFECTIVE RETURN IMMEDIATELY
NO RED LED IN TEST	1. DEFECTIVE RETURN IMMEDIATELY
ALARMS AFTER WARM UP WITH NO GAS PRESENT	1. CONTAMINATED SENSOR FROM AN EXTENDED STORAGE PERIOD. PRESS RESET
RED/GREEN LED CONSTANT ALARM NO RESET	1. DEFECTIVE RETURN IMMEDIATELY

LED AND SOUNDER SIGNALS

Color	Detector Operation	Sounder
Yellow Flashing	Warm Up Cycle	Off
Solid Green	Normal	Off
Flashing Red	Alarm	Continuous
Flashing Green	Mute Cycle	Off
Flashing Red	In Mute Cycle	Beep Every 30 Seconds
Red/Green Alternating	Malfunction	2 Beeps Every 15 Seconds

SPECIFICATIONS

POWER SUPPLY	120 vAC 60 Hz
OPERATIONAL VOLTAGE	102 to 132 vAC
NOMINAL CURRENT DRAW	3.8 Watts @ 120 VAC
OPERATIONAL TEMPERATURE	-31° F to 150° F -35° C to 66° C
RELATIVE HUMIDITY	15% to 93%
AUDIBLE ALARM	85 db @ 10 feet
VISUAL ALARM	Blinking Red LED
VISUAL MALFUNCTION ALARM	Alternating Red/Green LED
ALARM TRIGGER	< 25% of the LEL of Propane and Methane
CONFIRMATION CIRCUIT	8 Seconds
CASE MATERIAL	5.5" x 3.5" x 1.40"
Flame Rating	Geon 3700 94 5V
WARRANTY	3 Year Limited
TESTING LABORATORY STANDARD	Underwriters Laboratories UL 1484 Rev.2 Gas Detectors For Residential/RV Use

LIMITED WARRANTY

LIMITED PRODUCTS WARRANTY

MTI INDUSTRIES, INC. Warrants to the original purchaser that this detector will be free from defects of material or workmanship for a period of three (3) years. If proven to have been 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 shall be 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 which may vary from state to state.

WARRANTY RETURN POLICY

Warning-opening this product for any reason voids the warranty. There are no user serviceable parts in this case. No product will be accepted for repair or replacement without an authorization number (RA). RA numbers may only be issued by MTI or authorized distributors. To return products under warranty: Pack the detector 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.mtiindustries.com

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SAFE-T-ALERT™ BY MTI INDUSTRIES

PROPANE/METHANE GAS DETECTOR

MODEL 40-411A

USER'S MANUAL

IMPORTANT PLEASE READ CAREFULLY

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

Manual # 4096-4



SINGLE STATION PROPANE/METHANE DETECTOR
FILE NO. 151449

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

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



THIS DETECTOR WILL NOT OPERATE DURING A POWER FAILURE. DO NOT INSTALL TO A WALL SWITCHED CONTROLLED OUTLET.

SPECIAL FEATURES OF THE SAFE-T-ALERT™ GAS DETECTORS

Your Safe-T-Alert™ gas detector uses the latest microprocessor technology. This detector has been tested and listed as a Propane and Methane (Natural Gas) detector. Other explosive gases detected but not tested by Underwriters Laboratories include Acetone, Alcohol, Butane, Gasoline all of which you may have in your home.

To prevent false alarms from brief "puffs" of explosive gases the detector has a short recheck cycle before alarming. If high levels of explosive gases remain after recheck the detector will alarm.

POWER SUPPLY.....120 vAC 60Hz



WARNING LIMITATIONS OF PROPANE/METHANE GAS DETECTORS

THIS DETECTOR will not work without power. Examples causing no power are: an open circuit breaker, a faulty power line connection, an open main breaker.

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

This detector may not be heard. The alarm loudness is designed to meet or exceed regulatory standards, however, the alarm may not be heard if detectors are located in remote locations or behind closed doors. The alarm may not be heard by persons who are hard of hearing.

This detector is not smoke or fire detector, it is not suitable as a smoke or fire detector.

This detector is not suitable for installation in hazardous areas as defined in the national electrical code.

HOW TO TAKE CARE OF YOUR DETECTOR

This detector has been designed to be as maintenance free as possible. To keep your detector in good working order, you must;

- **Test the detector weekly.** (See - TEST PROCEDURE)
- **Observe the color of the indicator light** on the front panel of the detector at frequent occasions and during your weekly test. (See - OPERATING INSTRUCTIONS).
- **Vacuum the dust off the detector** cover at least once a year (more frequently in dusty locations) using the soft brush attachment of your vacuum.

- **Clean the detector cover** when dirty. Hand wash using a cloth dampened in clean water. Dry with a soft cloth.
- **DO NOT SPRAY CLEANING AGENTS OR WAXES** directly onto the front panel. This action may damage the sensor and cause the detector to malfunction.

WHERE TO INSTALL THIS GAS DETECTOR This gas detector is approved for installation in homes. This detector is detector should be located near sources of a potential gas leak. Some examples are a furnace, water heater, stove/oven. If potential sources of gas leaks are in two or more separated areas, MTI recommends installing a detector in each area.

CAUTION: Propane is heavier than air if the detector is being used for propane gas the detector should be installed within 4 to 20 inches from the floor.

CAUTION: Methane is lighter than air and the detector should be installed within 6 inches from the ceiling or on the ceiling at least 12 inches from a wall.

WHERE NOT TO INSTALL THIS GAS DETECTOR

- **BEHIND FURNITURE, DRAPES, IN CLOSETS OR AREAS THAT WILL BLOCK AIR FLOW TO THE DETECTOR.**
- **WITHIN 12 INCHES OF EXTERIOR DOORS, WINDOWS, HEATING OR RETURNS VENTS, OR OTHER DRAFTY AREAS. CORNERS.**
- **IN OR ON OUTSIDE WALLS, OR WITHIN 12 INCHES OF CORNERS.**
- **TO A WALL SWITCH CONTROLLED POWER OUTLET, OR GROUND FAULT CIRCUIT.**

40-411 INSTALLATION INSTRUCTIONS

Power Supply: 120 VAC. 60 Hz



SSHOCK HAZARD: TURN OFF THE CIRCUIT BREAKER BEFORE INSTALLING. DO NOT INSTALL IN A WALL SWITCH CONTROLLED OUTLET.

1. Determine the proper installation location (SEE WHERE TO AND WHERE NOT TO INSTALL GAS DETECTOR SECTION)
2. Remove the cover plate screw, plug the transformer into the outlet and fasten it to the wall plate using the wall plate screw.
3. Fasten the detector to the wall using the two screw holes located on the front of the case. Reconnect the power supply. Coil any loose wire to prevent tripping.

OPERATION

POWER ON Warm Up: When power is first applied the Yellow LED will flash for 3 minutes while the detector is warming up. At the end of that time the LED will turn Green indicating full operation. If the detector has detected unsafe levels of gas it will immediately go into alarm. **Caution-** This detector cannot alarm during the 3 minute warm up cycle.

TESTING

 **WARNING: TEST THE OPERATION OF THIS DETECTOR AT LEAST ONCE PER WEEK.**

Simply press the detectors Test switch any time during the warm up cycle or while in normal operation. The LED should flash RED and the alarm should sound. Release the switch. **THIS IS THE ONLY WAY YOU SHOULD TEST YOUR DETECTOR. THIS TEST FEATURE CHECKS THE FULL OPERATION OF THE DETECTOR. If this detector does not test properly return the detector immediately for repair or replacement.**

ALARM

The Red LED will Flash and the alarm will sound whenever dangerous levels of gas are detected. The detector will continue to alarm until the gas clears or the Reset switch is pressed. (See Procedures Take During An Alarm)

PROCEDURES TO TAKE DURING AN ALARM

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

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