

MD-200 & MD-220 Detector Instructions

Installation

1. Select the lowest practical location for Sensor 1 as close as possible to the potential source of an LP Gas leak. (Typically below/behind the stove)
 2. Select the lowest practical location for Sensor 2 (MD-220) in the bilge, cellar, pit or other source of a potential Gas leak.
- Important: Do not mount sensors where they may be exposed to water, dampness, stood on or physically damaged.
3. Mount the control box in desired location so that it is easily visible/accessible.
 4. Fit Gas Shut Off valve into LP Gas line between the LPG Bottle & Regulator ensuring the flow is correct as indicated on the valve.
 5. Follow wiring diagram to complete installation.

Notes:

Relay 1 Contacts (Max - 24V, 2 Amp. Fuse appropriately)

C (Common) & NC (Normally Closed) contacts closed when power OFF, during Warm Up or ALARM

C (Common) & NO (Normally Open) contacts closed when SAFE

Relay 2 Contacts (Max - 24V, 2 Amp. Fuse appropriately)

C (Common) & NC (Normally Closed) contacts closed when Power Output LED OFF

C (Common) & NO (Normally Open) contacts closed when Power Output LED ON

All Relay 2 contacts open when power OFF, during Warm Up or ALARM

Jump Pin OFF or ON Selection

OFF Setting – The unit will not start up automatically when power is applied (Factory Setting)

ON Setting – The unit will start up automatically when power is applied (Ideal when using detector on mains power as it will automatically restart after power failure)

EXT ALARM INPUT is optional and will trigger an alarm from an external source (ie. CO-100 Carbon Monoxide Detector). Requires >6V DC to trigger Alarm. See wiring diagram for connections

EXT OUT is optional and used to trigger the negative side of a relay. Contact for further information.

IMPORTANT – DO NOT adjust the variable potentiometers or calibration will be lost!!!

Operation

1. Press “ON-OFF” button to power unit on (one short beep, ON-OFF window green)
2. Allow up to 30 seconds for unit to warm up and reach operation mode (two short beeps) This time varies depending on sensor temperature and other variables
3. After warm up and Sensor(s) SAFE the Blue SAFE LED will be illuminated as well as the “Power Output” (Green LED) for the Solenoid/Relay 2 Contacts active
4. Press the “Power Output” button to toggle the Solenoid/Relay 2 contacts ON/OFF
5. Press the “TEST” button to force an ALARM, Test relay contacts & Gas flow/Appliances are shutting down.

LIVE SENSOR STATUS (Yellow LED's = Sensor1, Red LED's = Sensor2)

FAULT LED – Sensor is not connected, faulty or cable damaged.

GASES LED – Sensor had detected above 25% LEL Propane or Equivalent

Neither LED on – Sensor is SAFE

Default ALARM Functions as below

MD-200

-Audible Tone & ALARM LED will cycle ON/OFF at 1sec intervals for 1minute

-After 1minute if GAS still detected alarm will continue for another minute

-Once Gas level is safe, the detector will return to SAFE and Power output will return to previous set state before alarm.

MD-220

-Audible Tone & ALARM LED will cycle ON/OFF at 1sec intervals for 1minute

-After 1minute the Audible Tone will stop but continue in ALARM until the Gas Level is SAFE & the Power is reset using the ON-OFF button.

Note: ALARM Functions can be altered between models. Contact for further information.

Aust. Compliance, Standards & Regulations

This detector/solenoid conforms with the following Marine, Caravan & Automotive Australian Standards/Regulations:

-AS1425, AS4629, AS5601.2, NSCV PartC-Section5-Subsection5C & ULS Section5-Part9

-This detector also suits & conforms to many other standards/applications so please contact if you have a specific standard/regulation you are required to adhere to.

Warranty

Peel Electronics P/L products are designed to provide unlimited service, provided products are not tampered with or damaged in any way. They are warranted for a period of 1 year from purchase date & the Sensors are backed by the manufacturer of the sensor.

In no case shall Peel Electronics P/L Liability under any other remedy prescribed by law exceed the purchase price of the Gas Detector and is not a substitute for property, disability, life or any other insurance coverage, appropriate insurance coverage is the owner's responsibility.

Please Note –

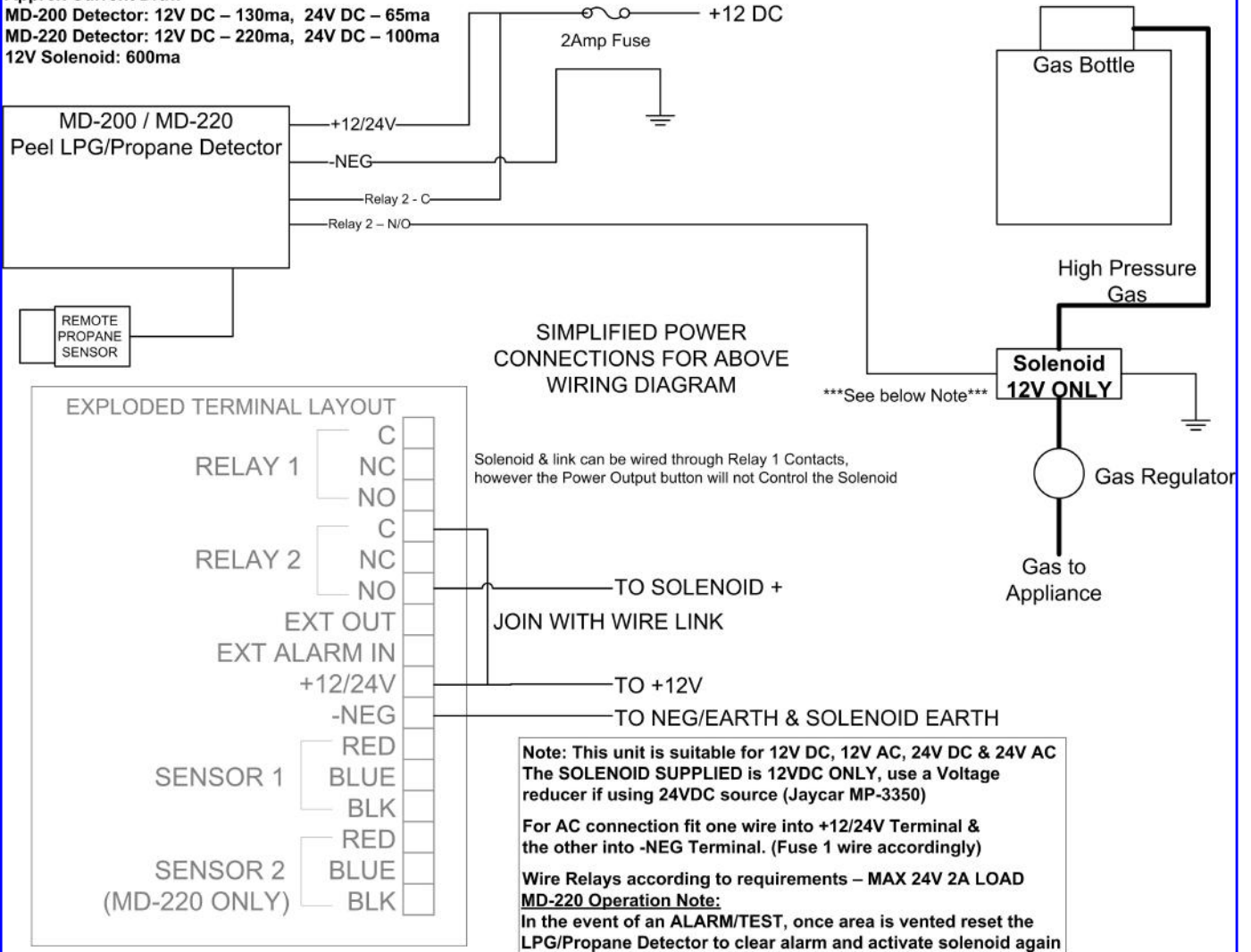
Certain Applications using Peel Gas Detectors may involve potential risks of Death, Personal Injury, or severe property or environmental damage (“Critical Applications”). Peel Gas Detectors are not Authorized, or warranted to be suitable for use in Life-Support Devices or systems or other Critical Applications. Inclusion of Peel Gas Detectors is understood to be fully at the Customer's Risk.

Detectors are calibrated under set conditions and where applicable for replace-ability of sensors, average ‘batch’ calibration is performed. Therefore in ‘field’ bump test results may vary from sensor to sensor.

MD-200 & MD-220 Peel LPG/Propane Detector 12V DC Wiring Example to Activate Solenoid

Approx Current Draw

MD-200 Detector: 12V DC – 130ma, 24V DC – 65ma
MD-220 Detector: 12V DC – 220ma, 24V DC – 100ma
12V Solenoid: 600ma



PEEL CARBON MONOXIDE DETECTOR

CO-100 Wiring to Activate Solenoid when used with MD-200 Series Peel LPG/Propane Detector

