

# Peel Carbon Monoxide Detection Systems

## Product Specification/Technical Details

Model Number: CO-100 (R2)  
 Gases detected: CO – Carbon Monoxide  
 Operating temperature: -10 to +60 deg C (Continuous)  
 -40 to +70 deg C (Intermittent)  
 Humidity rating: 5-99% RH non condensing  
 Warm-up time: < 30 seconds

**\*\*\* Australian Made \*\*\***

**All Peel CO Units come standard with activation relays**

Alarm Type	Alarm Level	Time Before Alarm	Alarm Indication
Low Level	70ppm	1Hr 4Min	Yellow LED
Mid Level	150ppm	12Min	Red LED
High Level	400ppm	35Sec	Yellow & Red LED

Based on Standard UL2034. Note: This unit is not designed to alarm when exposed to 30ppm for 30 days.

Power Input: 12/24 V AC/DC  
 Power consumption: When used in standard relay configuration  
 11ma when in SAFE Mode  
 50ma Avg. when in ALARM Mode  
 Sensor & Life: TGS5042 – 10 Year Life  
 Unit Life: Fully Serviceable.  
 Peel standard warranties apply for the main unit.  
 The sensors used in this instrument are backed by the manufacturer of the sensor.  
 All the instructions have been observed in the design process to maintain the sensor warranty.

## CO-100 Detector Instructions

### INSTALLATION

- Select a practical location to mount the Detector that is easily visible/accessible (Must be mounted minimum 1.5m above floor level & 1.85m from appliance/source of Carbon Monoxide. Typically mounted around head height)

Important: Do not mount sensors where they may be exposed to water, dampness, or can be physically damaged.

- Follow appropriate wiring diagram to complete installation.

Relay Contacts 1<sup>st</sup> Set (Max - 24V, 2 Amp. Fuse appropriately)

RL1 N/C (Normally Closed) Output of +12/24V when power OFF or when SAFE

RL1 N/O (Normally Open) Output of +12/24V during ALARM

Relay Contacts 2<sup>nd</sup> Set-Dry Contacts (Max - 24V, 2 Amp. Fuse appropriately)

RL2 C (Common) & RL2 N/C (Normally Closed) contacts closed when power OFF or when SAFE

RL2 C (Common) & RL2 N/O (Normally Open) contacts closed during ALARM

**Note:** Relay Functions can be altered for different applications. Ie. Running a Gas Shut off solenoid.

These options are reversing the relay operation & latching the relay after an alarm until manual power reset. Please contact for further information

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)

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

### OPERATION

- Press “ON-OFF” button to power unit on (ON-OFF window green)
- Allow up to 30 seconds for unit to warm up
- Press the “TEST” button to force a High Level ALARM, Test relay contacts/connected components are operating as expected

Default ALARM Functions

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

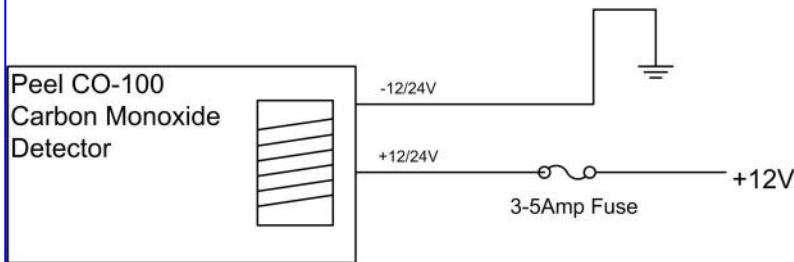
-After 1minute if GAS still detected alarm LED indication will continue as above with Audible Tone every 30seconds

-Once Gas level is deemed safe (below the Low Level), the detector will return to a SAFE state.

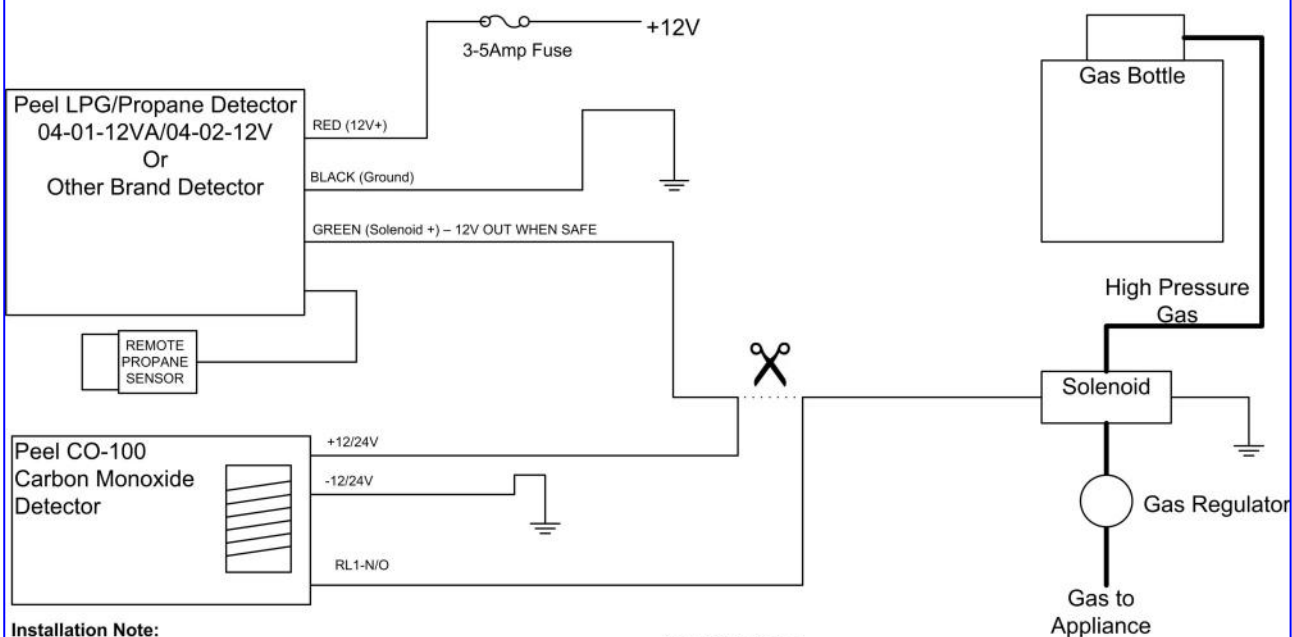
**Please Note –**

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.

## CO-100 Wiring



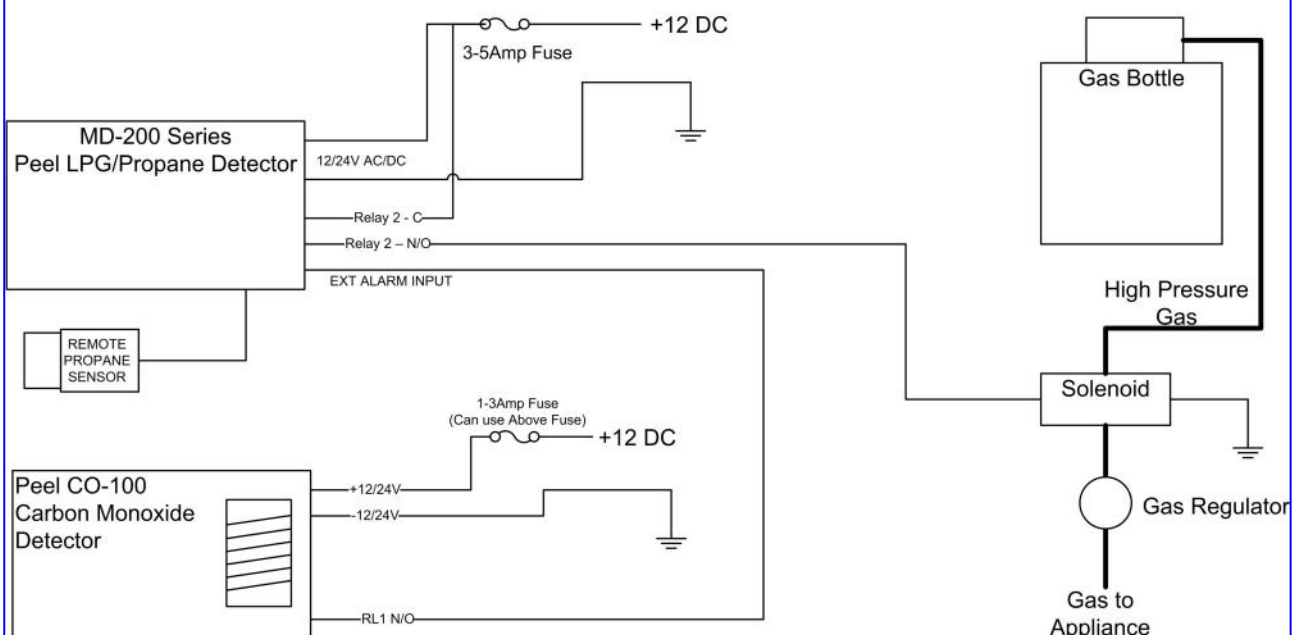
## CO-100 Wiring to Activate Solenoid when used with 04-01-12VA, 04-02-12V or Other Brand Detector



**Installation Note:**  
Set Jump Pin to ON  
Contact for instructions to alter CO-100 Relay Configuration to suit this application

**Operation Note:**  
In the event of an ALARM/TEST, once area is vented reset the Detector to clear alarm and activate solenoid again

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



**Operation Note:**  
In the event of an ALARM/TEST, once area is vented reset the LPG/Propane Detector to clear alarm and activate solenoid again

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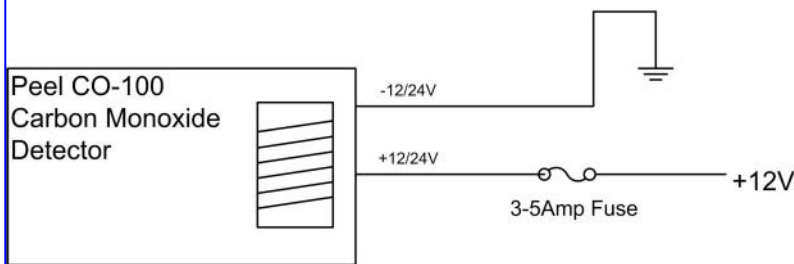
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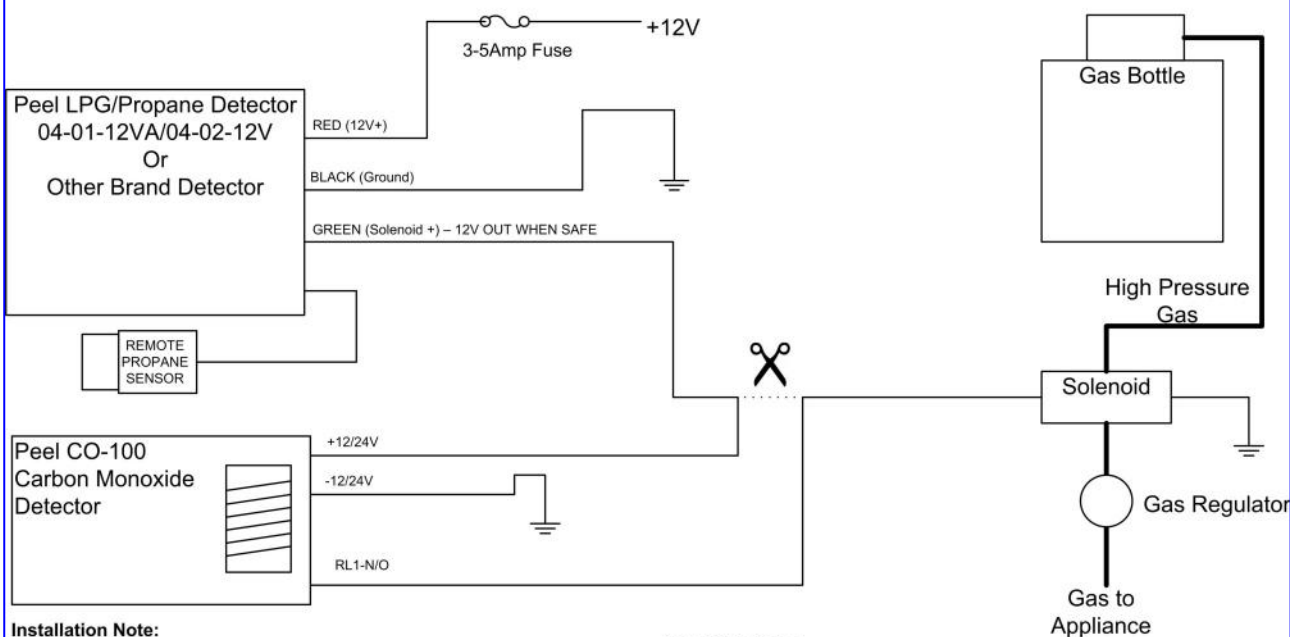
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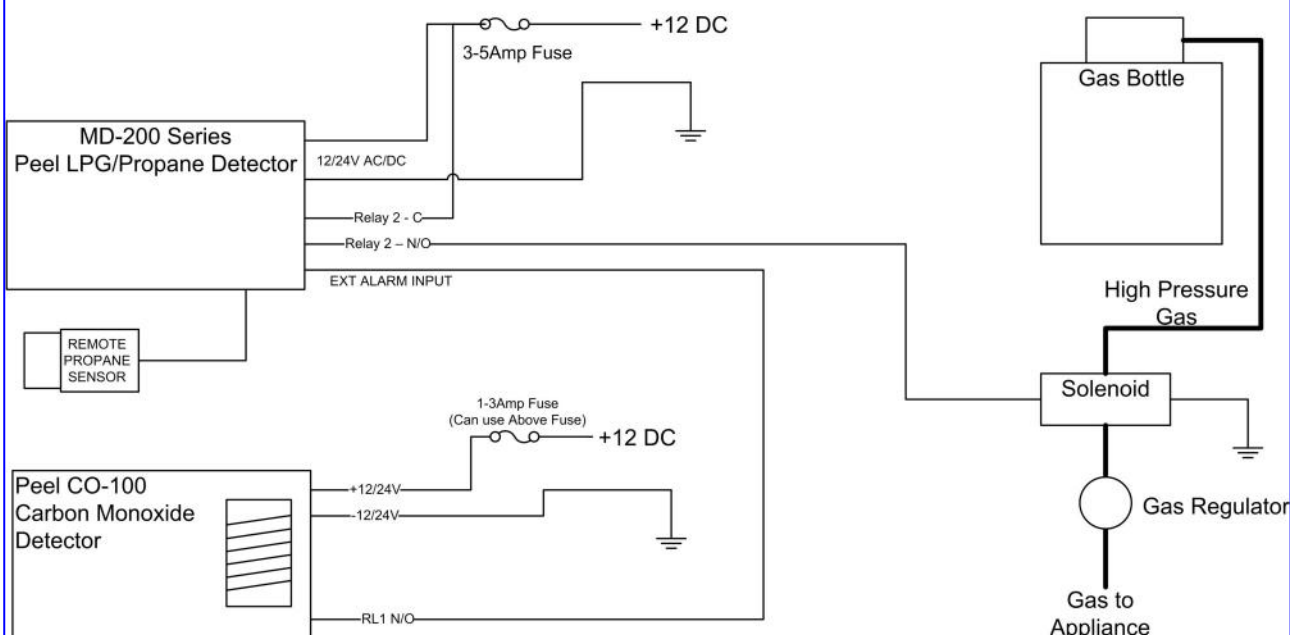
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## CO-100 Wiring to Activate Solenoid when used with MD-200 Series Peel LPG/Propane Detector



**Operation Note:**  
In the event of an ALARM/TEST, once area is vented reset the LPG/Propane Detector to clear alarm and activate solenoid again