

# Peel Carbon Monoxide Detection Systems

## Product Specification/Technical Details

Model Number:	CO-100
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
Alarm levels:	CO 200ppm +/-2% "Ceiling Type Detector" (On request can be calibrated to levels 0 - 10,000ppm. Conditions apply)
Response time:	Alarms are instant when the set gas levels are detected.
Power Input:	12/24 V AC/DC
Power consumption:	2ma when in SAFE Mode <100ma when in ALARM Mode
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.

## **Carbon Monoxide sensor selection**

Sensor model: TGS5042

Sensor life: 7 Years

### **-UL recognized component**

### **-Meets UL2034, EN50291, and RoHS requirements**

The sensor used for this product meets all the quality requirements for **ISO9001** as demonstrated by the manufacturer.

Figaro's **TGS5042** is a battery operable electrochemical sensor which offer several advantages over traditional electrochemical sensors.

Its electrolyte is environmentally friendly, it poses no risk of electrolyte leakage, can detect concentrations as high as 1% CO, operates in a range from -40° and +70°C, and it has lower sensitivity to interferant gases.

With a long life, good long term stability, and high accuracy, this sensor is the ideal choice for CO detectors

To maintain the level of precision each sensor is tested and validated for accuracy before it is used in production.

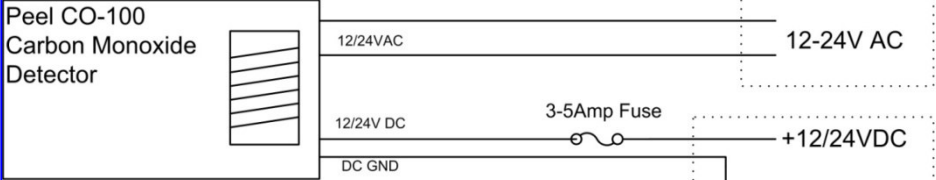
The sensors need to meet the laboratory calibrated values of the approved production reference.

### **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 General Wiring

Use for AC Wiring



**Installation Notes:**

-To Disable ON-OFF Switch and have unit always powered on  
Set jump pin to "ALWAYS ON" (ie. for hard wired units)

-To have the ALARM Continue after AIR is "clear"  
Set jump pin to "HOLD ALARM" (ie. for user to acknowledge there was an alarm)

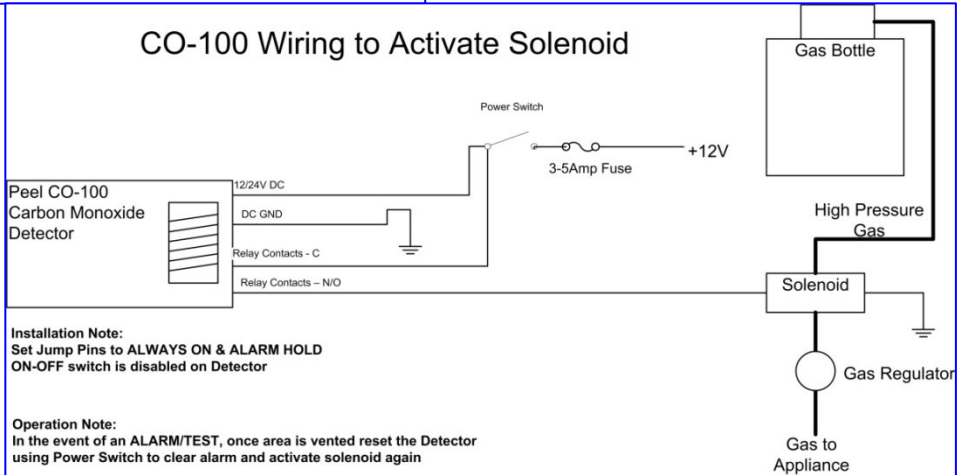
**Operation Note:**

In the event of an ALARM/TEST, once area is vented the Detector must be reset to clear alarm

-Relay Contacts: Max 24V 2Amp  
N/C Contact closed when Safe & also when unit is turned Off  
N/O Contact closed during Alarm

Use for DC Wiring

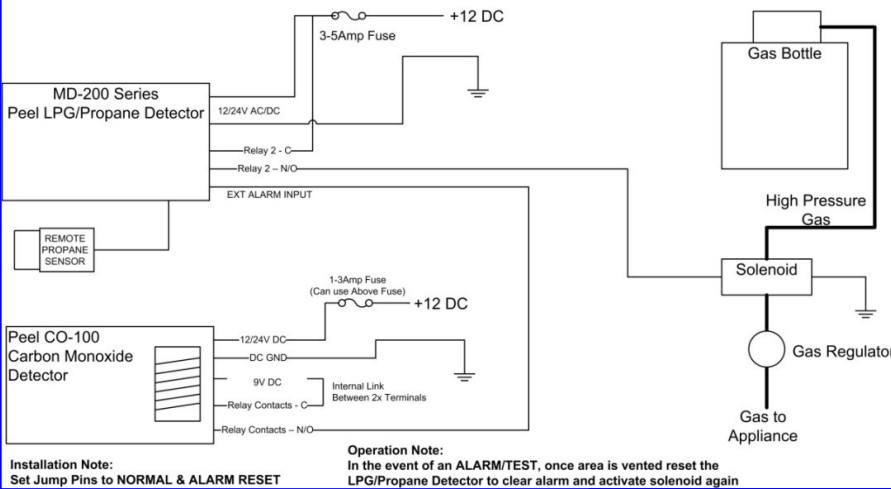
## CO-100 Wiring to Activate Solenoid



**Installation Note:**  
Set Jump Pins to ALWAYS ON & ALARM HOLD  
ON-OFF switch is disabled on Detector

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

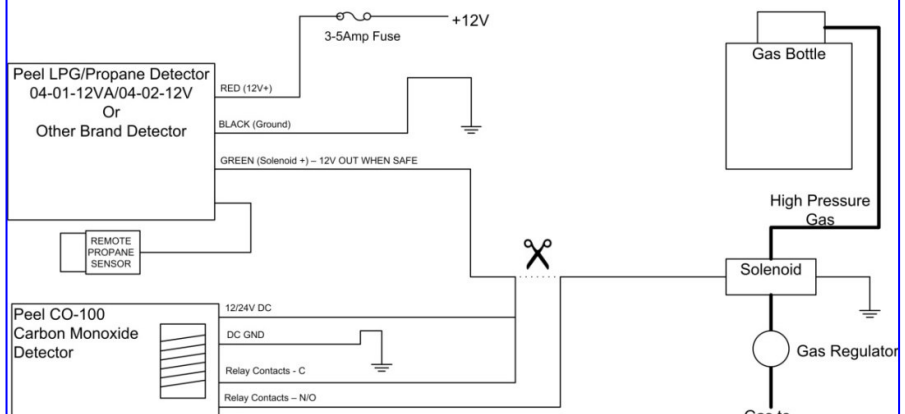
## CO-100 Wiring to Activate Solenoid when used with MD-200 Series Peel LPG/Propane Detector



**Installation Note:**  
Set Jump Pins to NORMAL & ALARM RESET

**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

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



**Installation Note:**  
Set Jump Pins to ALWAYS ON & ALARM HOLD  
ON-OFF Switch is disabled on CO 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