



## Product Overview:

The ParkSafe Controller is designed for installations into car parking facilities and enclosed garages. Each CGS Controls GM100 Detector (Nitrogen Dioxide) and (Carbon Monoxide) is powered directly from the CGS ParkSafe controller and communicates data through Modbus RTU. Up to 16 detectors can be powered/controlled by the ParkSafe, each detector can cover a 50ft radius. The system can automatically control ventilation systems according to gas levels and an optional temperature levels. The ParkSafe is capable of activating both the exhaust fan(s) and the air intake device(s) such as outside air louvers/dampers and make up air units.

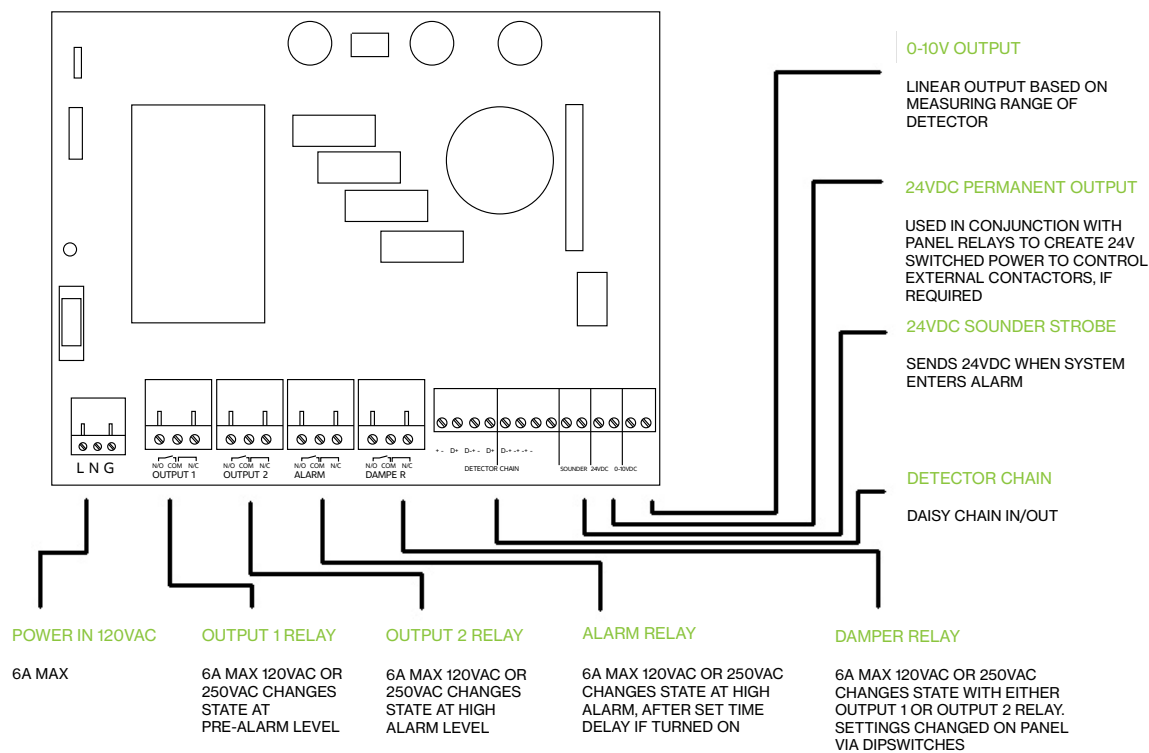
The ParkSafe will make or break dry contacts internally on relay terminals [Output-1] and a second contact on [Output-2]. Another output relay will energize after [Output-2] has been active for an extended period. This is used for a link to a BMS or other external indication device. The ParkSafe controller also has a 0-10vdc output to allow the controller to drive VFD based on gas level outputs.

## Technical Specifications

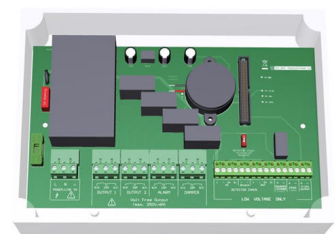
### General

|                                                      |                                                                                                                                               |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Model:                                               | CGSGDPPS ParkSafe Controller                                                                                                                  |
| Capacity:                                            | Up to 16 channels per controller unit                                                                                                         |
| Size: (H x W x D)                                    | 7.08 x 10.03 x 3" (180 x 255 x 77 mm)                                                                                                         |
| Housing Material:                                    | ABS Polylac - PA765. / UL 94 V-1                                                                                                              |
| Mounting:                                            | Indoor use - Wall Mounting                                                                                                                    |
| Weight:                                              | 1.3kg (2lb 13.85oz)                                                                                                                           |
| Display:                                             | 4.3" TFT Touch Screen                                                                                                                         |
| Visual Indicators:                                   | TFT visual. Green: Normal; Yellow: Pre-Alarm; Amber: Alarm Delay; Red: Alarm<br>Relay Outputs On/Off / Gas Detection Status                   |
| Audible Alarm:                                       | >70dB @ 3.28ft (1m). Quiet conditions                                                                                                         |
| Buttons:                                             | Common for Silence/Reset operation                                                                                                            |
| Power Consumptions:                                  | 14.5W max                                                                                                                                     |
| AC Power:                                            | 100-120V~ 50/60Hz                                                                                                                             |
| Internal Fuse:                                       | T3.15A L250V                                                                                                                                  |
| Relay Output::                                       | Volt Free Relay Outputs x4 (non-latching) / NO/COM/NC 6A @ 120V~<br>User configurable – energised/de-energised, time delay / 24 VDC switching |
| Common Output:                                       | 24 VDC Permanent / 0-10 VDC Variable                                                                                                          |
| Ingress Protection:                                  | IP64 / NEMA 4 (See manual for further information)                                                                                            |
| Operating:                                           | -10 ~ 50°C / 14 ~ 122°F 30 ~ 80% RH (non-condensing)                                                                                          |
| Storage:                                             | -25 ~ 50°C / -13~122°F up to 95% RH (non-condensing)                                                                                          |
| Typical Wiring:                                      | Power & Relay: ~#18-12AWG<br>Detector: #12-18AWG Power Pair; #18-22AWG Data Pair<br>Other: #18-22AWG                                          |
| Electromagnetic Compatibility and Electrical Safety: | IEC 61010-1:2010 + AMD1:2016; EN 61010-1:2010 + A1:2019; UL61010-1/2012/ CAN CSA C22.2 No. 61010-1-12/ EMC EN 61326-1:2013                    |

## PCB Overview



GM100 DETECTOR



PARKSAFE

