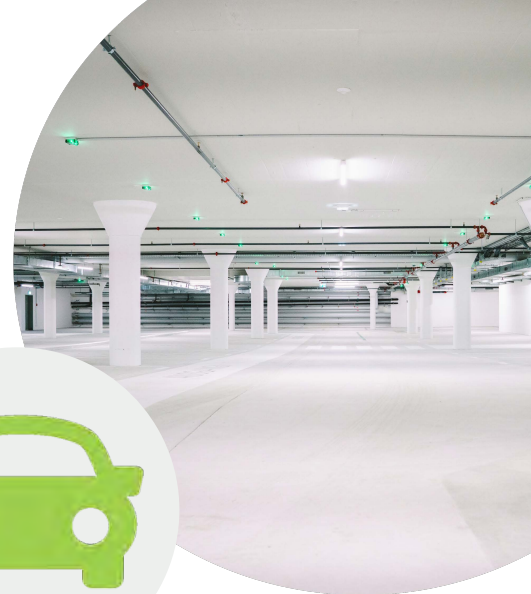


# AGSParkSafe

## Datasheet

### Gas Detection & Ventilation Control System



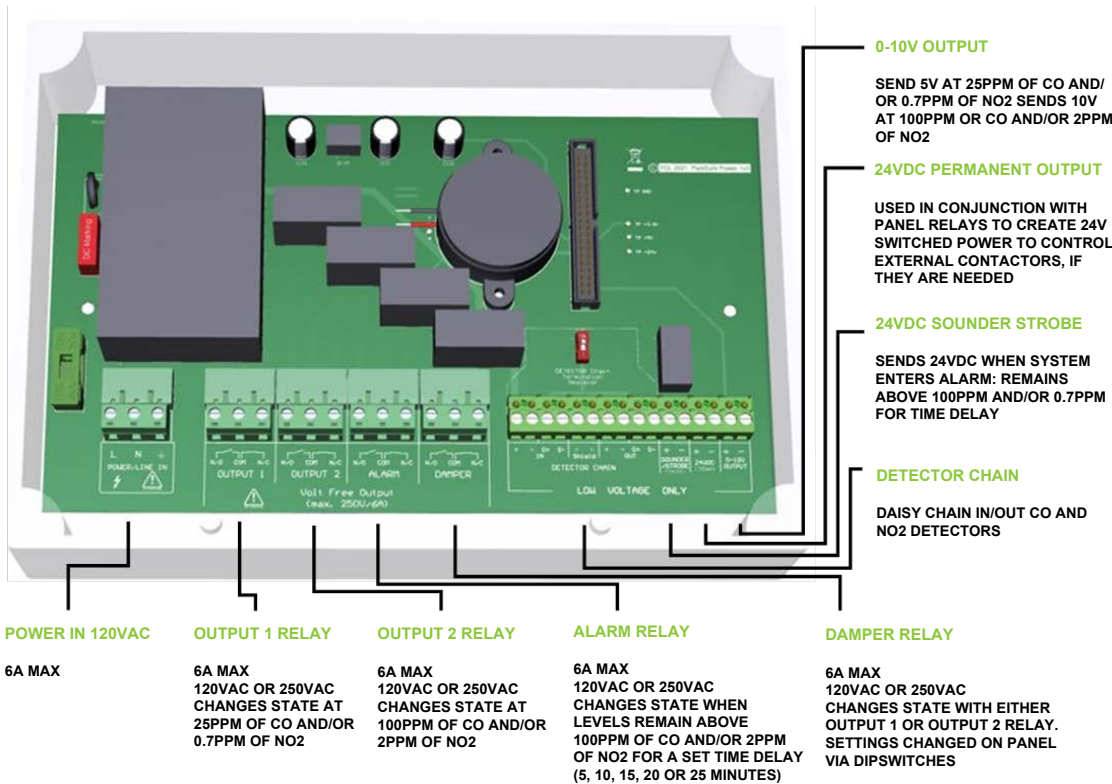
## ParkSafe Product Overview

The ParkSafe Controller is designed for installations into car parking facilities and enclosed garages. Each AGS ParkSafe Detector (Nitrogen Dioxide) and (Carbon Monoxide) is powered directly from the AGS ParkSafe controller and communicates data through Modbus RTU. Up to 16 detectors can be powered/controlled by the ParkSafe. 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.

General	
Model:	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 Polyac - 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 Relay Outputs On/Off / Gas Detection Status.
Audible Alarm:	>70dB @ 3.28ft (1m). Quiet conditions.
Buttons:	Common for Silence/Reset operation.
Power Consumption:	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~ 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 / -13~122F° up to 95% RH (non-condensing)
Typical Wiring	Power & Relay: ~#18-12AWG Detector: #12-18AWG Power Pair; #18-22AWG Data Pair 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

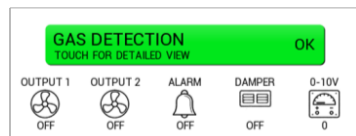
## ParkSafe PCB Overview



## ParkSafe Sequence Of Operation

### System OK

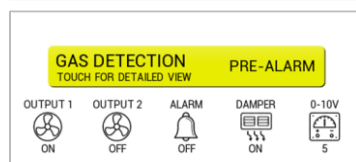
All System Fans are De-Activated  
System Displays 'OK'



- All outputs normal/off

### Alarm Level 1

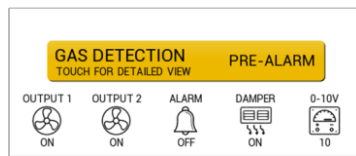
System Displays 'Pre-Alarm'  
Fan Activation  
Damper Activation  
Alert BMS



- Output (1) On  
- Damper (Selectable On/Off)  
- 0-10V output: 5V

### Alarm Level 2

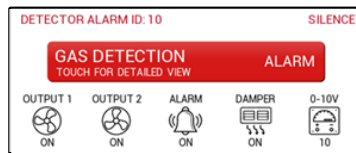
System Displays 'Pre-Alarm'  
Second Fan Activation  
Second Damper Activation  
Alert BMS



- Output (1) On  
- Output (2) On  
- Damper (Selectable On/Off)  
- 0-10V output: 10V

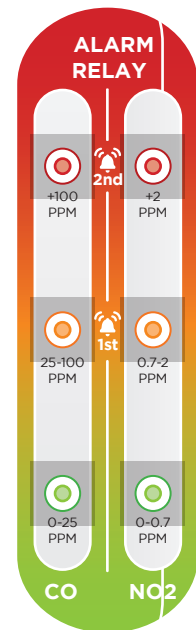
### Alarm Condition

Occurs once levels remain above 'alarm level 2' for a set time delay. System must be manually reset to de-activate audible/visual alarms. Alarms can be silenced  
Audible Alarm Beacon Activation  
Internal Buzzer Activation  
Alert BMS



- Output (1) On  
- Output (2) On  
- Alarm On  
- Damper On  
- 0-10V output: 10V  
- Internal buzzer will sound  
- ParkSafe displays detector ID / location in alarm

## Alarm Levels



Find out more

**American Gas Safety LLC**

[www.americangassafety.com](http://www.americangassafety.com)

Head office:

6304 Benjamin Road, Suite 502, Tampa, FL 33634

Tel: (727) 608-4375

Email: [info@americangassafety.com](mailto:info@americangassafety.com)

