

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

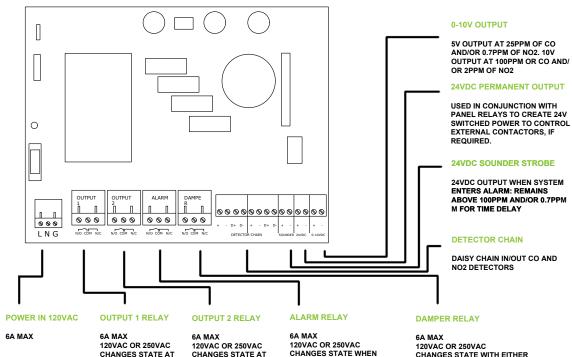
The ParkSafe will make or break dry contacts internally on relay terminals [Output-1] and a second contact on [Output-2]. Another output relay will energize after [Output-2] has been active for an extended period. This is used for a link to a BMS or other external indication device. The ParkSafe controller 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 Polylac - PA765. / UL 94 V-1
Mounting:	Indoor use - Wall Mounting
Weight:	1.3kg (2lb 13.85oz)
Display:	4.3" TFT Touch Screen
	TFT visual. Green: Normal; Yellow: Pre-Alarm; Amber: Alarm Delay: Red: Alarm
Visual Indicators:	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
	Volt Free Relay Outputs x4 (non-latching) / NO/COM/NC 6A @ 120V~
Relay Output:	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)
	Power & Relay: ~#18-12AWG
	Detector: #12-18AWG Power Pair; #18-22AWG Data Pair
Typical Wiring	Other: #18-22AWG
Electromagnetic Compatibility and	IEC 61010-1:2010 + AMD1:2016; EN 61010-1:2010 +A1:2019; UL61010-1/2012/
Electrical Safety	CAN CSA C22.2 No. 61010-1-12/
	EMC EN 61326-1:2013

ParkSafe PCB Overview



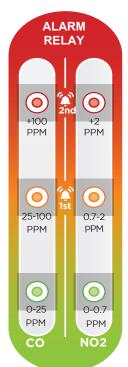




LEVELS REMAIN ABOVE 100PPM OF CO AND/OR 2PPM

OF NO2 FOR A SET TIME DELAY (5, 10, 15, 20 OR 25 MINUTES)

Alarm Levels



Alarm Condition

CHANGES STATE AT

0.7PPM OF NO2

25PPM OF CO AND/OR

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

CHANGES STATE AT

2PPM OF NO2

100PPM OF CO AND/OR

Alarm Level 2

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

Alarm Level 1

System Displays 'Pre-Alarm' Fan Activation to Increase Ventilation Optional Damper Activation Alert BMS

System OK

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

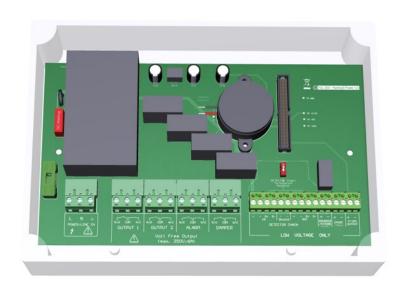
Clearly Labeled Relays and Outputs

CHANGES STATE WITH EITHER OUTPUT 1 OR OUTPUT 2 RELAY.

SETTINGS CHANGED ON PANEL

VIA DIPSWITCHES

Designed specifically for enclosed parking garages



Find out more

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