

ParkSafe Gas Detection & Ventilation Control System



Product Overview:

The ParkSafe Controller is designed for installations into car parking facilities and enclosed garages. Each Merlin ParkSafe Detector (Nitrogen Dioxide) and (Carbon Monoxide) is powered directly from the Merlin 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.

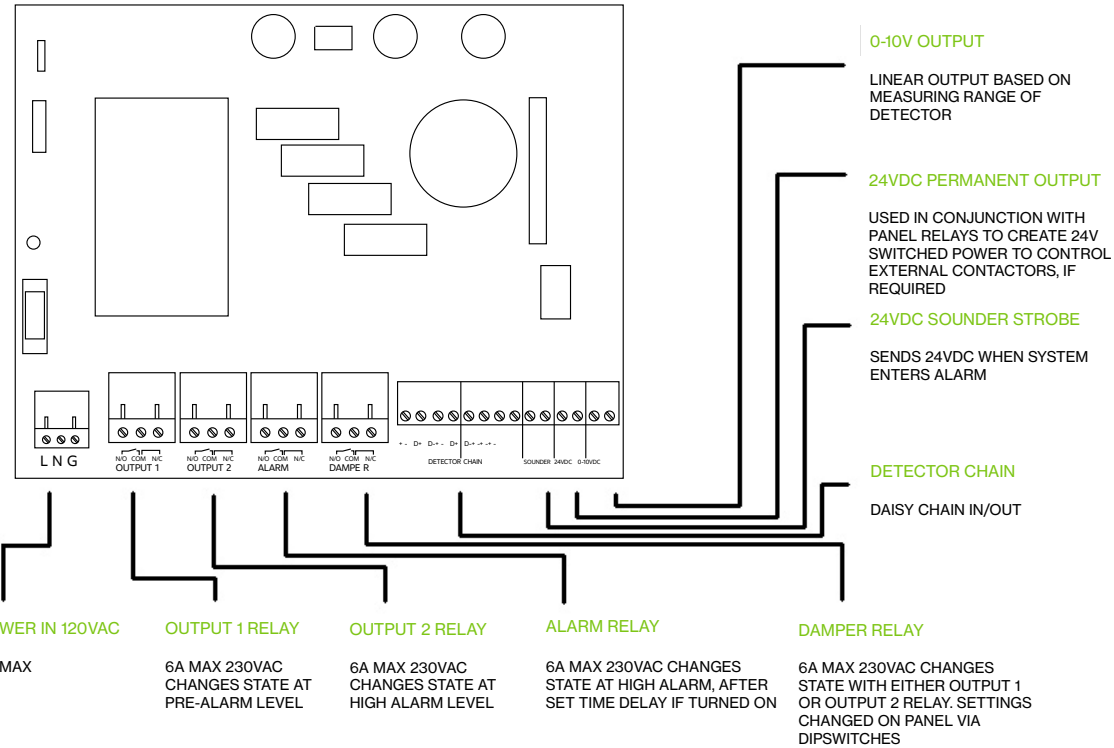
The system can automatically control ventilation systems according to gas levels and an optional temperature levels. The ParkSafe is capable of activating both the exhaust fan(s) and the air intake device(s) such as outside air louvers/dampers and make up air units.

Technical Specifications

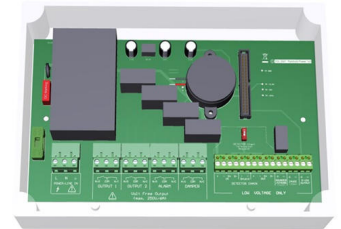
General

Model:	ParkSafe
Capacity:	Up To 16 Channels Per Controller Unit
Size: (H x W x D)	180mm x x 255mm x 76mm
Housing Material:	ABS Polyac - PA765 / UL 94 V-1
Mounting:	Indoor Use - Wall Mounting
Weight:	1.3kg
Display:	4.3" TFT Touch Screen
Visual Indicators:	Green: Normal / Amber: Alarm Delay / Yellow: Pre-Alarm / Red: Alarm
	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:	230V - 50/60Hz
Internal Fuse:	T3.15A L250V
Relay Output::	Volt Free Relay Outputs x4 (non-latching) - NO/COM/NC 6A @ 230V
	User Configurable - Energised/De-Energised - Time Delay - 24VDC
	Switching
Common Output:	24VDC Permanent / 0-10VDC Variable
Ingress Protection:	Nema 4 / IP64 (See Manual For Further Information)
Operating:	-10~50°C 30 ~ 80% RH (non-condensing)
Storage:	-25~50C° 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/ A1:2018-11
	EMC EN 61326-1:2013

ParkSafe PCB Overview



PARKSAFE DETECTOR



PARKSAFE PCB

