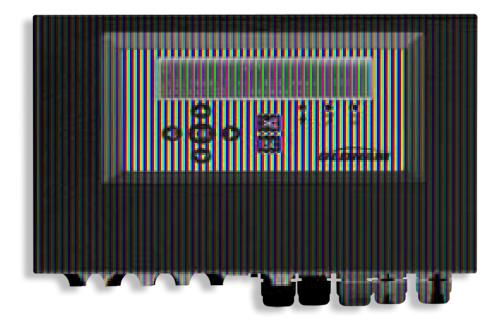


CPS

Car Park System, Fixed Gas Detection for parking facilities and tunnels.



Presentation

The CPS Car Park System provides accurate and reliable monitoring for the highest level of protection in parking facilities and tunnels.

Features

- Up to 256 points per system
- Up to 1,000 times faster than a pumped system

• Parking facility electricity savings of up to 40%

Available for all vehicles

- Diesel
- Gasoline
- LPG
- Biofuel
- Electrical

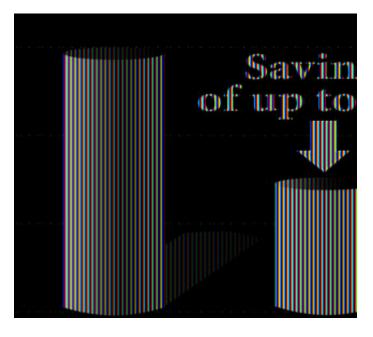


Safe, accurate and reliable

The system was designed to comply with the high safety standards enforced in such European countries as Germany, the Netherlands and Belgium.

Economical

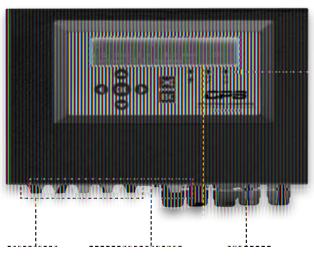
Continuous monitoring significantly reduces your operating costs by optimizing the efficiency of ventilation systems and servo controls. Such efficiencies can produce energy savings of up to 40% when used with specific equipment.



Conventional System Car Park System

Up to 40% electricity savings per year compared to a conventional system.

Analysis in underground parking garages in Arras, France.



8 lines of 32 modules: up to 256 slaves per central Backlit LCD display showing the gas concentration

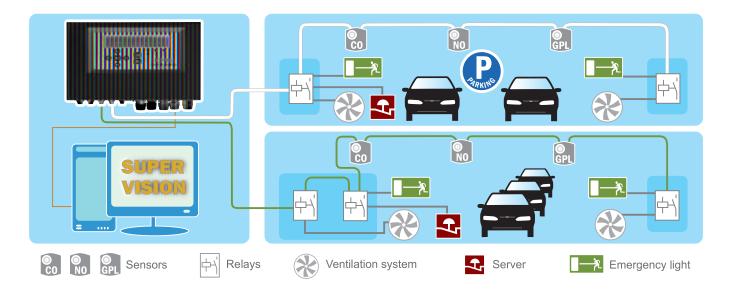
In alarm conditions, CPS shows real-time gas concentrations for the related zones 3 operation status LEDs

Versatile

Available in wall- and rack- mounted versions, the CPS central controller and its various modules are user-programmable for specific applications. The system's networking technology also enables the Car Park System to adapt to any installation up to:

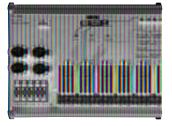
- 256 sensors capable of monitoring 6 different gases
- 256 addressable relays
- 64 logic inputs
- 256 analog outputs

Several servo controls can be used: low speed/high speed, delays, forced operation, night mode, etc.





CPS 10 sensor module







Module specifications

Module specifications	5	
CPS 10 sensor module		
Dimensions	118 mm x 110 mm x 60 mm (4.65'' x 4.35'' x 2.36'')	
Degree of protection	IP 65	
Cable glands	2 M16 cable glands 4-8 mm diameter –	
	Power supply / local relays	
Consumption	2.5 mA for the toxic sensor (max 4-20 mA)	
	50 mA explo: max 90.7 mA	
Status indication after calibration	Red/green electroluminescent diode	
Calibration	Automatic, non-intrusive	
Measuring ranges	Carbon Monoxide – 0 to 300 ppm in 1 ppm increments	
	Nitric Oxide – 0 to 100 ppm in 1 ppm increments	
	Nitrogen Dioxide – 0 to 30 ppm in 0.1 ppm increments	
	Methane – 0 to 100% LEL in 1% increments	
	Liquefied Petroleum Gas – 0-100% LEL in 1% increments	
	Hydrogen – 0 to 100% LEL in 1% increments	
Sensor replacement	Sensor replacement switch on the interior of the CPS 10 case	
CPS RM4 or RM8 relay module	3	
Dimensions	125 mm x 165 mm x 60 mm (4.92" x 6.5" x 2.36")	
Number of relays	4 relays (CPS RM4); 8 relays (CPS RM8) – Contacts: RCT-type	
Contact rating	2 A / 250 V	
Consumption	3.4 mA (max: 5.7 mA)	
Connection	Screwing Terminals (cable: 1.5 mm2)	
Mounting	On DIN rail	
Configuration of positive or negative relay se	curity with mini switches.	
Relay modules are equipped with 2 all-ornot	hing inputs.	
Dimensions	125 mm x 165 mm x 60 mm (4.92" x 6.5" x 2.36")	
Number of all-or-nothing inputs	16	
Consumption	3.2 mA (max: 5.5 mA)	
Dimensions	125 mm x 165 mm x 60 mm (4.92" x 6.5" x 2.36")	
Number of analog outputs	4	
Consumption	130 mA (max: 256 mA)	

CPS central detection controller	Alarms
Wall-mount dimensions	Number of alarms
320 mm x 180 mm x 95 mm (12.6″x 7.09″ x 3.74″)	_6 per sensor (Out of range – Fault)
Degree of protection	Programmable thresholds
P 54	For instantaneous or averaged values, increasing or decreasing values, a
Cable Glands	manual or automatic rearming
5 M20 cable glands– Diameter: 5 to 12 mm for power supply and local	3 local internal relays
elays	R1 (alarm/fault) – R2 (alarm) – R3 (alarm)
9 grommets - Diameter: 5 to 7 mm or PG-9.	Minimum charge for RCT contacts
Rack-mount dimensions	2A/250 VAC-30 VCC (resistive charge)
.ength: 19″ - Height: 4 U (176 mm)	Digital Outputs
Degree of protection	ModBus RS-485 protocol
P 31	(connection with a centralized supervision device)
Operating conditions	RS-232 or USB: USB protocol priority
	(permanent connection to system configuration)
Ambient temperature 10°C to +40°C	Approvals
Storage temperature	Low Voltage Directive
20°C to +85°C	This device is in compliance with the security requirements of Directive
Humidity	2014/35/EU based on standard 61010-1 and its second amendment
5 to 95% noncondensing	Metrology
5	Underground parking facilities: according to VDI 2053
Main power supply	EMC Electromagnetic compatibility
/oltage: 85 to 264 VAC Current: 1.5 A (115 VAC) / 0.8 A (230 VAC)	LINC Liechomagnetic companishiny
nternal back-up battery Dptional, 600 mA/h capacity	
Consumption 140 mA + 12 mA per measurement line (240 mA max.)	
Measuring lines	
Capacity	
3 lines of 32 modules	
Cable type	*Excluding batteries, sensors and consumable parts.
2 shielded twisted pairs RS-485 cable	years*
Module power supply	
12 to 30 VCC power supply delivered to modules	
via the central controller	
Digital Module Network	
ModBus RS-485, 1-32 addresses selected with mini switches.	
solation	
1500 V between the power supply and the digital network	
Display	
Backlit LCD display screen	
2 lines of 32 characters each – 1 line of pictograms)	
3 operation status LEDs: OK, Fault, Alarms	
Keyboard	
ntuitive 7-key	
ocal buzzer	
Audible alarm and fault signals	
<u> </u>	
ntegrated printer	

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