

THE OLDHAM CPS IS A DIGITAL CAR PARK SYSTEM THAT CAN HANDLE UP TO 256 MEASUREMENT POINTS.

The Car Park System (CPS) is a detection solution for parking facilities, available for all types of vehicle, including petrol, diesel, LPG, biofuel and electrical.

With the capacity for up to 256 measurement points, in addition to ventilation management architecture, the CPS is a comprehensive solution in terms of both ventilation and ease of use.

The system can deal with most issues, including in large parking facilities. Cabling architecture is optimised as the system makes it possible to connect different types of detector, such as CO, NOx, hydrogen or LPG, to the same bus.

TECHNICAL DATA

CPS central detection controller	
Size (Central detection controller)	12.6 x 7.1 x 3.7 in. (32 x 18 x 9.5 cm)
Protection Class (Central detection controller)	IP 54
Protection Class (Rack)	IP31
Cable Glands	5 M20 cable glands- Ø : 5 to 12 mm for power supply and local relays 9 grommets - Ø : 5 to 7 mm or PG-9.
Operating temperature	+14°F to +104°F (-10°C to +40°C)
Storage temperature	-4°F to +185°F (-20°C to +85°C)
Humidity	5-95% RH, non condensing
Power Supply	Voltage: 85 to 264 VAC Current: 1.5 A (115 VAC) / 0.8 A (230 VAC)
Internal back-up battery	Optional, 600 mA/h capacity
Power consumption	140 mA + 12 mA per measurement line (240 mA max.)
Display	Backlit LCD display screen (2 lines of 32 characters each - 1 line of pictograms) 3 operation status LEDs: OK, Fault, Alarms
Keyboard	Intuitive 7-key
Local buzzer	Audible alarm and fault signals
Integrated printer	Optional for rack-mounted version
Digital Outputs	ModBus RS-485 protocol (connection with a centralized supervision device) RS-232 or USB: USB protocol priority (permanent connection to system configuration)
Warranty	2 years
Approvals	
Low Voltage Directive	This device is in compliance with the security requirements of Directive 2014/35/EU based on standard 61010-1 and its second amendment
Metrology	Underground parking facilities: according to VDI 2053
EMC Electromagnetic compatibility	According to EN 50270 ETL approval for US & Canada NRTL Approval In compliance with ANSI/UL 61010-1:2005 and in compliance with CAN/CSA-C22.2 No. 61010-1



FEATURES

INPUT SPECIFICATIONS

Available lines: eight digital lines of 32 modules

Type of cable: two shielded twisted pairs RS-485

Module power supply: 12 to 30V DC delivered by the system

Digital module network: RS-485 Modbus, 1 to 32 addresses selected with mini switches

Insulation: 1,500 V between the power supply and the digital network

ALARMS

Relays: three local internal relays: R1 (alarm/fault), R2 (alarm) and R3 (alarm)
RCT contact on each relay:
2A/250V AC - 30V DC (resistive charge)

Alarms per channel: six per sensor
(alarm one to four, out of range and fault)

Programming: for instantaneous or averaged values, by increasing or decreasing values, and manual or automatic rearming



CPS EN FORMAT RACK

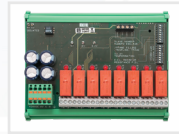
MODULE SPECIFICATION

CPS 10 SENSOR MODULE



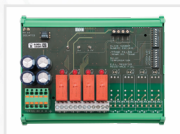
Size	4.65 x 4.35 x 2.36 in. (11.8 x 11.0 x 6.0 cm)
Protection Class	IP 65
Cable glands	2 M16 cable glands 4-8 mm Ø Power supply / local relays
Consumption	2.5 mA for the toxic sensor (max 4-20 mA) 50 mA explo. max 90.7 mA
Status indication after calibration	Red/green electroluminescent diode
Calibration	Automatic, non-intrusive
Sensor replacement	Sensor replacement switch on the interior of the CPS 10 case

CPS RM4 OU RM8 RELAY MODULE



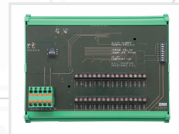
Size	4.92 x 6.5 x 2.36 in. (12.5 x 16.5 x 6.0 cm)
Mounting	On DIN rail
Number of relays	4 relays (CPS RM4); 8 relays (CPS RM8)
Contacts	RCT-type
Contact rating	2 A / 250 V
Connection	Screwing Terminals (cable: 1.5 mm²)
Consumption	3.4 mA (max: 5.7 mA)
Configuration	Configuration of positive or negative relay security with mini switches. Relay modules are equipped with 2 all-or-nothing inputs.

CPS DI16 INPUT RELAY MODULE



Size	4.92 x 6.5 x 2.36 in. (12.5 x 16.5 x 6.0 cm)
Mounting	On DIN rail
Number of all-or-nothing inputs	16
Connection	Screwing Terminals (cable: 1.5 mm²)
Consumption	3.2 mA (max: 5.5 mA)

CPS AO4 OUTPUT RELAY MODULE



Size	4.92 x 6.5 x 2.36 in. (12.5 x 16.5 x 6.0 cm)
Mounting	On DIN rail
Number of all-or-nothing inputs	4
Connection	Screwing Terminals (cable: 1.5 mm²)
Consumption	130 mA (max: 256 mA)

EXEMPLE D'ARCHITECTURE :

