

FREQUENTLY ASKED QUESTIONS

1. How many networks can be connected to a CPS?

How many slaves per network?

The control unit can control 256 digital modules distributed over 8 lines, with a maximum of 32 modules per line.

2. How many modules can be controlled by the CPS?

The CPS is designed to control 256 digital modules which can be relay modules, logic input modules, analog output module or detector.

The CPS can control up to:

- 256 detectors
- 224 logic input
- 256 analog outputs
- 256 addressable relays

Modules are connected through a digital RS-485 network using JBUS/MODBUS.

3. How many gases can the CPS detect?

The CPS can detect up to 10 gas types. A gas type is defined by:

- Gas
- Range
- Alarm thresholds.

If you must use different alarm thresholds for a same gas, you must define 2 detector types.

4. Which gases can be detected?

- CO: 0 to 300 ppm
- NO: 0 to 100 ppm
- NO₂: 0 to 30.0 ppm
- CH₄: 0 to 100 % LEL
- Liquid Petroleum Gas: 0 to 100 % LEL
- H₂: 0 to 100 % LEL

5. How many logic input (LI) modules can be used?

At least 2 digital inputs are activated by module. It is therefore possible to use 112 modules at a maximum. There are also 2 digital inputs on the 4 or 8 relay modules (also activated by 2 each time).

6. Does an 8 relay module require 8 addresses?

No, there is only one address per module, the same applies to the 16 LI module or the analog output module.

7. Is there an order to respect for commissioning?

No, addressable modules can be placed in any order. Do not forget to address them.

8. How are modules addressed?

Addresses are configured via dip switch on each module.

9. How can I check that a relay is activated?

Red LEDs on the relay module are switched on when the relays are activated.



CPSTM
Car Park System

10. Can an analog detector be connected to the CPS?

No. Only digital detectors can be connected.

11. What is the run time of the embedded battery pack?

The battery pack allows the CPS to operate for one hour with 50 detectors CO/NO/NO₂.

If you need to use LEL detectors, please use an external emergency battery.

12. What cable type do you need to use?

You must use 2 shielded twisted pair cable: one is used for the module power supply and the other for RS485 communication. The standard cable is MPI 22, section 0.22mm² (ref. B103778)

13. What type of printer is used with the CPS?

The standard table printer used with the wall-mounted CPS is the DPU-414 (ref 6114629).

Most serial printers can be used with the CPS.

14. What are CPS outputs?

A USB port allows connection from a PC to the CPS. The control unit and module can then be configured via the COMCPS software.

An RS232 output can connect the CPS to a printer. An RS485 can connect the CPS to supervision.

15. What is the calibration system made of?

A calibration cap and magnet allow one-man, non-intrusive calibration. Simply place the magnet on the detector and a bicolour LED tracks the calibration process.

16. What is the maximum line length?

The maximum line length is 1.2 km with cable type MPI22, section: 0.22mm² (up to 4.8 km with 3 repeaters max).

17. Can several detectors be calibrated at the same time?

Yes, up to 10 detectors can be calibrated once.

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