

# Frequently Asked Questions

**Q. How many networks can be connected to a CPS?**

**How many slaves per network?**

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

**Q. How many modules can be controlled by the CPS?**

A. 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.

**Q. How many gases can the CPS detect?**

A. 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.

**Q. Which gases can be detected?**

- A.
- 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

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

A. 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).

**Q. Does an 8 relay module require 8 addresses?**

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

**Q. Is there an order to respect for commissioning?**

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

**Q. How are modules addressed?**

A. Addresses are configured via dip switch on each module.

**Q. How can I check that a relay is activated?**

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

**Q. Can an analog detector be connected to the CPS?**

A. No. Only digital detectors can be connected.



**Q. What is the run time of the embedded battery pack?**

A. 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.

**Q. What cable type do you need to use?**

A. 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 0.22mm<sup>2</sup> (ref. B103778)

**Q. What type of printer is used with the CPS?**

A. 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.

**Q. What are CPS outputs?**

A. 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.

**Q. What is the calibration system made of?**

A. 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.

**Q. What is the maximum line length?**

A. The maximum line length is 1.2 km with cable type MPI22, section: 0.22mm<sup>2</sup> (up to 4.8 km with 3 repeaters max).

**Q. Can several detectors be calibrated at the same time?**

Yes, up to 10 detectors can be calibrated once. an company