OCTOBUS64

alarm and measurement unit for explosive and toxic gases

- Up to 64 CAN modules per motherboard
- 7 alarm levels
- LCD graphic display
- One-off point-by-point detection
- Possibility to detect different gases on a single line

DALEMANS
GAS DETECTION

THE BELGIAN PIONEER IN GAS DETECTION

To guarantee safety and performance, all gas detection installations must be calibrated and maintained regularly in accordance with the manufacturer's instructions.

OCTOBUS64

The OCTOBUS64 unit manages the **explosive and toxic** gas detectors that are connected to it in a simple and effective way. It has **64 inputs** (or nodes) per motherboard and is **compatible with the CAN bus system.**

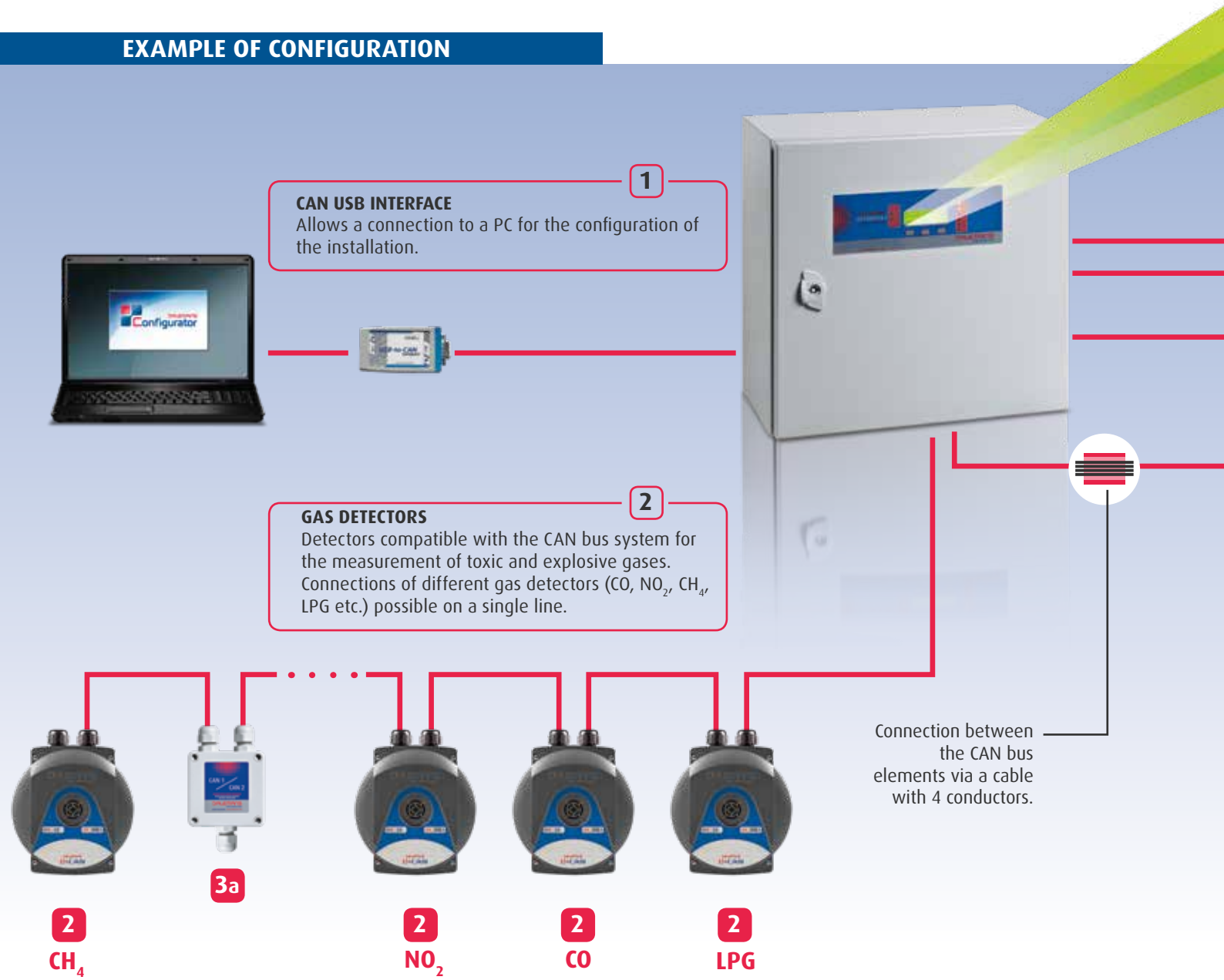
Its line cabling mode is **highly economical** and allows it to meet all requirements in areas such as **car parks and laboratories** that call for the presence of a large number of sensors.

The **64 nodes** are able to incorporate detectors, additional relay cards and analogue inputs and outputs.

Its **backlit display** notifies you of the concentration of measured gas at all times.

As standard it has **5 addressable relays** that allow you to connect different types of servomechanisms such as a **ventilation system, luminous panels or other sirens.**

EXAMPLE OF CONFIGURATION



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7

FIVE OUTPUT RELAYS (basic)
Allows the control of auxiliary servomechanisms
- ventilators,
- alarm sirens,
- flash lamps,
- luminous panels etc.

6

DECENTRALISED DISPLAY
Allows the remote visualisation of installation data.

6

7

8

RS232 / RS422 INTERFACE
Allows direct connection to
- an automaton,
- a serial printer,
- or a PC for the visualisation of the installation.

3b

2
CH_4

2
NO_2

4

INTERFACE 4..20 mA/CAN or 4..20 mA/CAN
Allows the connection of an analogue sensor to the CAN bus or the generation of an analogue signal.

5

ADDITIONAL RELAY CARD
Card with 8 addressable output relays for the control of auxiliary servomechanisms. May be placed at a distance from the unit or in its casing

5

2
CH_4 / CNG

2

4

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OCTOBUS64

CHARACTERISTICS

Input channels	**Number**	Up to 64 nodes (detector, relay card, etc.)
	Type	CAN bus (4 wires)
Alarm levels		7 programmable alarm levels per input
Fault management		1 general fault, 1 network power fault, 1 battery fault
Adjustable parameters	**By keyboard**	Alarm level values for each input channel
		Node name or location
Programming		By PC (Windows environment)
Output relays		5 inverter contacts - Max. 230 V / 3 A
Options	**Relays**	Additional relay card mounted on DIN rail (max. 8 per motherboard)
		8 inverter contacts - Max. 230 V / 3 A + 1 fault contact
	Input or output	4..20 mA
	Interface	Serial ports RS232 and RS422
		CAN / USB
	Peripheral	Local printer and Data Logger
Display		1 LCD backlit graphic display 4 x 20 characters
Indicators	**Alarms**	4 red LEDs for alarm levels
	Fault	3 yellow LEDs for faults
	Buzzer	1 internal buzzer for alarms and faults
Power supply	**AC**	230 VAC 50 Hz
	Backup battery	24 VDC - Load current 100 mA
Operating temperature		0°C to + 40°C
Standard casing	**Material**	Plastic halogen-free casing with window
	Dimensions/weight	H x L x W: 210 x 305 x 115 mm / 2.2 kg
	Ingress Protection	IP55
Wiring	**Cable type**	FTP Cat. 5E - 4 x 2 x 0.5 mm (twisted faradised pairs)

OPERATING PRINCIPLE

Each detector continuously transmits the concentration of gas present in the atmosphere to the unit. In the event of a gas leak or of an excessively high gas concentration, the unit will for example be able to activate different ventilation speeds, send a 4..20 mA signal or trigger a siren.

The unit has 7 configurable alarm thresholds according to needs. These will be configured as a function of the gas to be detected and of its environment. The exceeding of a threshold will switch a potential free contact and trigger the desired servomechanism. A 'fault' contact will be triggered whenever a problem is uncovered on the unit or on the detector.

On the front of the unit, a display allows ease of reading of the gas concentration. You will also find a green functioning LED; a yellow fault LED and 4 red LEDs will indicate the alarm level(s) exceeded.

The RS232 interface will make it possible to record and visualise the measurements of detectors, the alarms and the faults that occur for an installation. The programming of the unit and the modules that are connected to it is carried out via an external PC and a clear and concise graphic interface.

A charger built into the unit will allow the connection of backup batteries.

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