

OCTOPLUS

alarm and
measurement unit
for explosive
and toxic gases



- ✓ Up to 8 4..20 mA analog inputs
- ✓ 4 alarm levels
- ✓ LCD graphic display
- ✓ Micro-controller technology
- ✓ Programming via keyboard and PC

WARRANTY
3 YEAR



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.

OCTOPLUS

The **OCTOPLUS** unit manages the explosive and toxic gas detectors that are connected to it in a **simple and effective** way. Its **precision** and **flexibility** allow it to be placed in a large number of areas such as **car parks, laboratories and others**.

Its **backlit display** notifies you of the concentration of measured gas at all times. As standard it has **5 relays** to which various types of servomechanism can be connected.

By connecting it to one or more Dalemans detectors, you will benefit from a **very high performance** installation.



CHARACTERISTICS

Input channels	Number	4 (basic version) + 4 additional inputs (as an option)
	Type	4..20 mA loop, whether or not powered by unit
Alarm levels		4 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
		Name assigned to input channel
Programming		By PC (Windows environment)
Outputs	24 V	
	Alarms	4 inverter relays - Max. 230 V / 3 A
	Fault	1 relay - Max. 230 V / 3 A
Options	Input channels	Additional card with 4 input channels
	Extended system	Several units linked to a single display
	Relays	Additional relay card mounted on DIN rail
		8 relays - Max. 230 V / 3 A
Peripheral		Local printer or Data Logger (PC) (RS 232 or RS 485)
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 ± 10% 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: 280 x 306 x 145 mm / 2.2 kg
	Ingress Protection	IP55
Certifications		CE Certification · RoHS

OPERATING PRINCIPLE

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

The unit has 4 configurable alarm levels. These will be configured as a function of the gas to be detected and of the environment.

The exceeding of a level 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 power LED, a yellow fault LED and 4 red LEDs will indicate the alarm level(s) exceeded.

The parameters can be modified either via PC or via the unit keyboard. A charger built into the unit will allow the connection of backup batteries.



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