ALPHA GAS

Addressable modular gas detection panel

- **128 addresses for gas detection devices expandable to 256 max.**
- **CE certified according to CPD**

ALPHAGAS is *a modular addressable gas detection panel* equipped in standard with 1 MGLOOP board allowing to manage 128 points on 2 loops or 4 open circuits. The panel is compatible with several different types of gas detectors from the range **GDxxxA**. To be addressable and correctly recognized by the ALPHA GAS panel, each gas detector needs to be addressed with the help of the MiniBT05 tool or directly from the panel.
The gas panel has the physical capacity for **one additional expansion board** that can be either an **extra input detection board** MG2LOOP, increasing the maximum number of points to 256, or an **output board of 8 programmable relays**.
The system is programmable online by keyboard or PC for Uploading and Downloading.

Main characteristics

- Base: 1 module managing 2 loops of 128 gas detectors or 4 open lines (32 gas detectors/line)
- Possibility for 1 extension module:
  - MG2LOOP
  Internal module for 2 gas loops (128 addresses) for an overall total of 256 gas detectors on the panel.
  - EX8R
  8 way relay module for a panel configured with 128 gas detectors and 8 relay module.
- Monitored sounder line.
- Auto powered sounder line.
- Test tool for gas detector in option.
- Programming online by keyboard or PC
- System autoconfiguration.

Electrical specification	
Mains supply voltage	230Vac (-15%,+10%), 50Hz
Maximum current absorbed from mains	< 300mA
Min/Max output voltage	Min=21 V, Max = 28,5 V
Batteries	2 Pb type sealed batteries connected in series, 12V 12Ah

Mechanical characteristics	
Unit dimensions (in mm)	405 x 265 x 140 (h x w x d)
Material	Metal painted with epoxy resin dust paint
Degree of protection	IP30

Climatic characteristics	
Operating temperature / Storage temperature	-5°C (+/- 3°C) to 40°C (+/- 2°C)
Operating relative humidity / Storage relative humidity	≤ 93% with no condensation

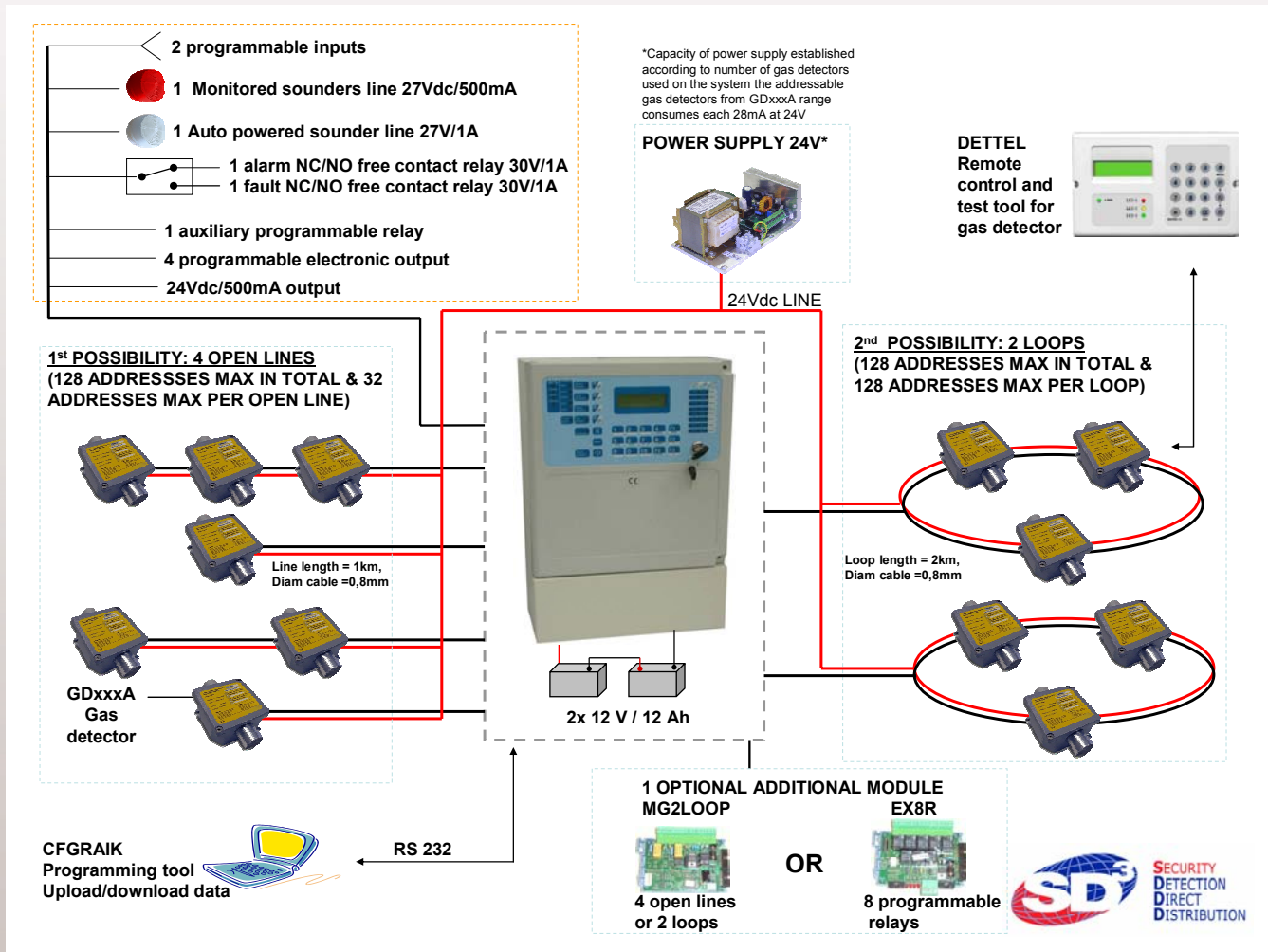| Inputs/outputs	
Base:MG2B board	2 loops (128 detectors in total) or 4 open lines (32 det/line)
Number of points	128 expandable to 256 (additional MG2LOOP)
2 programmable inputs	
4 programmable outputs	0,2A/30V
1 Monitored sounders line	27Vdc/500mA
1 Auto powered sounder line	27V/1A
1 ALARM relay output	30V/1A
1 FAULT relay output	30V/1A
1 AUXILIARY programmable relay	30V/5A
24V output	24V/500mA

Internal options	
Possibility for 1 optional additional board	
MG2LOOP	Extension internal module for 2 gas loops
EX8R	8 ways relay module

SD3
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2 programmable inputs

1 Monitored sounders line 27Vdc/500mA

1 Auto powered sounder line 27V/1A

1 alarm NC/NO free contact relay 30V/1A
1 fault NC/NO free contact relay 30V/1A

1 auxiliary programmable relay
4 programmable electronic output
24Vdc/500mA output

*Capacity of power supply established according to number of gas detectors used on the system the addressable gas detectors from GDxxxA range consumes each 28mA at 24V

POWER SUPPLY 24V*

DETTEL Remote control and test tool for gas detector

24Vdc LINE

1st POSSIBILITY: 4 OPEN LINES
(128 ADDRESSSES MAX IN TOTAL & 32 ADDRESSES MAX PER OPEN LINE)

Line length = 1km, Diam cable =0,8mm

GDxxxA Gas detector

2nd POSSIBILITY: 2 LOOPS
(128 ADDRESSES MAX IN TOTAL & 128 ADDRESSES MAX PER LOOP)

Loop length = 2km, Diam cable =0,8mm

2x 12 V / 12 Ah

CFGRAIK Programming tool Upload/download data

RS 232

1 OPTIONAL ADDITIONAL MODULE
MG2LOOP **EX8R**

OR

4 open lines or 2 loops

8 programmable relays

REFERENCE	DESCRIPTION
ALPHA GAS	Addressable modular gas control panel
CFGRAIK	Software programming tool
OPTIONS & ACCESSORIES	
MG2LOOP	Extension internal module for 2 gas loops (total 128 addresses for the board, 128 max addresses per loop)
EX8R	8 way relay module
DETTEL	Remote control with display and keypad for gas detector

Non contractual document