



GD1xxC

Conventional Gas detectors

- **GD100C: Methane gas detector, CH₄, IP55**
- **GD101C: Butane gas detector, C₄H₁₀, IP55**
- **GD102C: Petrol steam gas detector IP55**
- **GD104C: Hydrogen gas detector, H₂, IP55**
- **GD105C: Liquid propane gas detector, LPG, IP55**
- **GD106C: Propane gas detector, C₃H₈, IP55**
- **GD113C: Carbon Monoxide, Electrochemical cell, CO, IP55**

Gas detectors GD1xxC range consists on conventional detectors that use **new generation of semi-conductors**: more **sensitive** and more **accurate** in sampling, better **stability** in time, better **rapidity** for response, and **poor sensitivity** regarding humidity. Moreover, a **performing electronic of control minimizes consumptions**; this makes GD1xxC range detectors **adaptable** for intermediate/large size installations.

Gas detectors of the GD100C range are dedicated to tertiary and industrial applications. **They have been submitted to the tests certifying their compliance with standards**

Housed in a metal box **IP55**, all reference of gas detectors GD1xxC range also exists in addressable version (see dedicated datasheet).

GDREL optional board makes possible to adapt any conventional GD1xxC gas detector to other non-SD3 panels by allowing the use on the gas detector of relays to repeat the information of Alarm, Pre-alarm and fault.

Alarm and pre-alarm concentration and delays can be modified with the optional programming tool **DETTEL**.



Main characteristics

- IP55
- CE certified
- Programmable pre alarm/alarm filter: 0 to 240s
- Programmable pre alarm/alarm thresholds
- Fully compatible with conventional SD³ panels range
- Optional relay board for all panels compatibility
- **Output 4/20mA**

Electrical specification

	GD100C CH ₄	GD101C C ₄ H ₁₀	GD102C Petrol steam	GD104C H ₂	GD105C LPG	GD106C C ₃ H ₈	GD113C CO
Main supply voltage	12 – 28 Vcc						
Quiescent current at 24V	34 mA	34 mA	34 mA	34 mA	34 mA	34 mA	34 mA
at 12V	65 mA	65 mA	65 mA	65 mA	65 mA	65 mA	65 mA
Programmable pre alarm/alarm factory thresholds	15%LEL	15%LEL	15%LEL	15%LEL	15%LEL	15%LEL	100ppm
(in LEL: Lower Explosive limit or in PPM: parts per million)	30%LEL	30%LEL	30%LEL	30%LEL	30%LEL	30%LEL	200ppm

Mechanical characteristics

Dimensions (mm)	H:145, W:100, D:60
Weight	360g
Material	Dust proof metal
IP rating	IP 55

Climatic characteristics

Operating temperature	0°C ... 45°C
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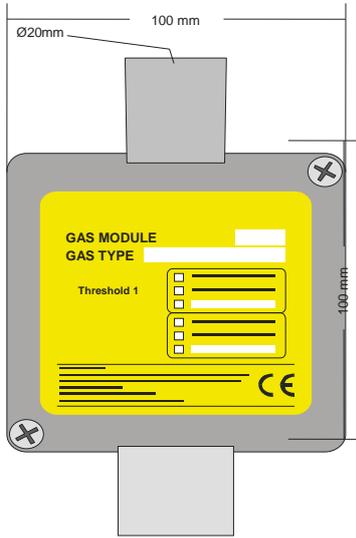
Detection line consumption

Standby	40uA +/- 2 uA
Pre-alarm	30 mA +/- 2 mA
Alarm	60 mA +/- 2 mA
Fault	No consumption (line open)

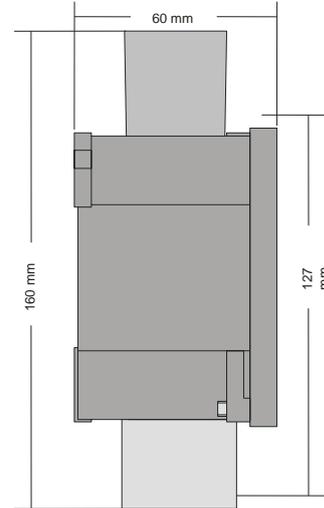
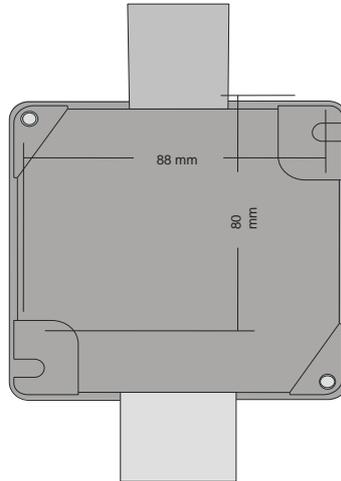


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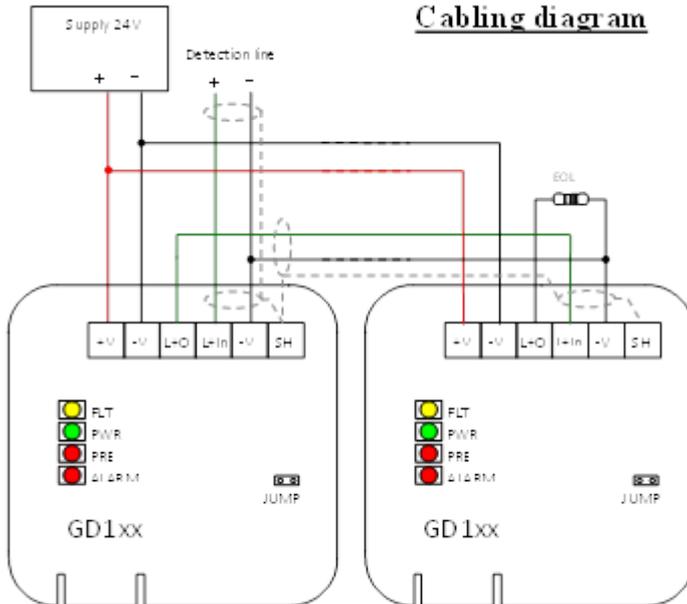
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Size and assembly



Cabling diagram



- +V** + Detector supply (12Vpp...28Vpp)
- V** - Detector supply
- L+O** + Detection line output
- L+In** + Detection line input
- V** - detection line
- SH** Detection line shield

- ALARM** Led ON indicates alarm condition
- PRE** Led ON indicates pre-alarm condition
- PWR** LED ON indicates supply Ok, OFF indicates supply missing
- FLT** Led ON indicated circuit fault
- JUMP** Jumper open (default): management of pre-alarm status activated.

REFERENCE

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GD104C	Conventional Hydrogen gas detector, H ₂ , IP55
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GD106C	Conventional Propane gas detector, C ₃ H ₈ , IP55
GD113C	Conventional Carbon Monoxide, Electrochemical cell, CO, IP55

ACCESSORIES/OPTIONS

DETTEL	Remote control with display and keypad for gas detector
GDREL	Plug-in 3 relay card, NO-NC 30V/1A
P7150V	Test kit for gas detector

