



Warsaw

CO₂ DIGITAL DETECTOR

ADDRESSABLE, w/ RS485 PORT

type

DD-8R

version W1

with removable, Infra-Red SENSOR

PURPOSE

DD-8R digital detector is designed for continuous monitoring of the presence of carbon dioxide on the premises monitored by Digital Gas Detection System. Control is the cyclic measurement of gas concentrations in ambient air. Exceeding the prescribed concentration values produces an optical alarm signal, a change of status of the output, activates the buzzer and a status change in the system via RS-485 network. The detector has a removable module with the intelligent infra-red sensor, which facilitates maintenance and lowers operating costs.



TECHNICAL SPECIFICATIONS

Model	DD-8R
Power supply	24V DC (range: 8 ÷ 30V)
Supply current	max 30mA @24V DC
Operating temperature range	from -5°C up to +45°C recommended, -15°C to +50°C allowed periodically (<1h/24h)
Relative air humidity range	from 30% to 90% RH
Gas sensor	Infra-Red type, in a removable module; estimated life time in the clean air - about 15 years
Detectable gases	CO ₂ (carbon dioxide), range 400 ÷ 5000 pp
Interfering factors	no factors
Alarm thresholds (standard)	A1 = 800ppm CO ₂ A2 = 1400ppm CO ₂
Alarm threshold accuracy	± 5% rel. for the recommended calibration conditions
Threshold thermal stability	± 5% in range 0°C to 40°C
Long term stability	± 10% rel./year, not less than ± 50 ppm
Calibration interval	recommended: < 36 months
Communication port	RS-485 isolated, MODBUS RTU protocol; plug in connectors
Signaling : optical	lamps: LED Alarm – A1 or A2 (setting by jumper) = red; POWER = green
acoustic:	65dB/30cm, piezoceramic buzzer (switchable by jumper)
Relay output	NO/NC type for A1 or A2 (setting by jumper); max 2A/30VDC; plug in connectors
Dimensions	100 x 80 x 30 mm, H x W x D
Housing, weight	ABS, IP30; approx. 90 g

1000 ppm = 0,1% vol. , 10 000 ppm = 1% vol.

FIELD OF APPLICATION

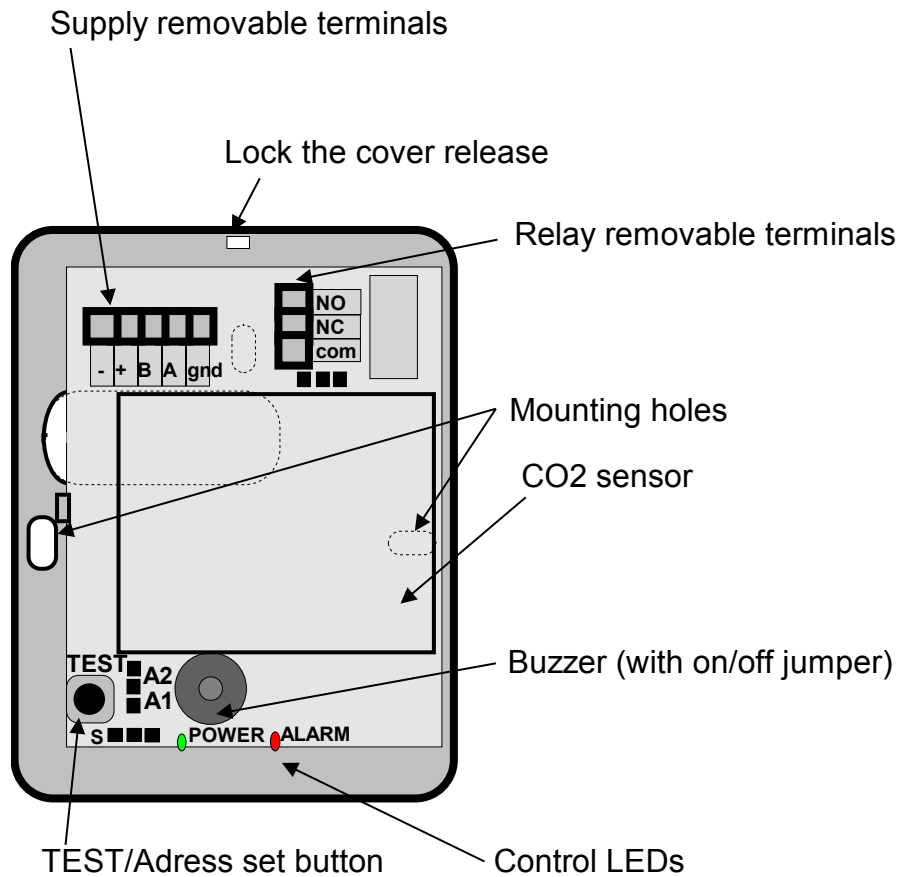
- hotels, offices, public buildings (rooms with A/C split units)
- dispersed CO₂ detection systems

FEATUERS

- long life , Infra-Red sensor
- ease of installation and connection (detachable terminals)
- relay output NO/NC type (switch up to 30VDC);
- Built-acoustic buzzer (with jumper off);
- sensor on removable, intelligent module
- Built-in microprocessor control = reliability, stability, thermal compensation system, alarm history
- stylish housing, for wall mounting (cable entry from the plaster or mounting to a typical , Ø60mm, flush-mounted box with screws at the edge).

DETECTOR DESCRIPTION

View in mounting position (without front cover)



PRODUCER:

gazex

GAZEX

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CONNECTIONS DIAGRAM

