



Warsaw

HFC / CO/ NG /LPG DIGITAL DETECTOR

type

DD-xx/APs

version U1

with removable, intelligent semiconductor SENSOR

PURPOSE

DD-xx/APs digital detector is designed for continuous monitoring of the presence of specified gas on the premises. 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 and activates the buzzer. The detector has a removable module with the intelligent semiconductor sensor, which facilitates maintenance and lowers operating costs.

"xx" - means a code of the calibration (detected) gas in accordance with GAZEX nomenclature :

FR = HFCs (chlorofluorocarbons), CO = carbon monoxide,

PB = propane-butane, GZ = CNG (methane)



FIELD OF APPLICATION

- Hotels, offices, public buildings
- Household boiler rooms with stoves burning natural and propane-butane gases
- Rooms with A/C equipment

FEATUERS

- long life , semiconductor gas sensor
- ease of installation and connection (detachable terminals)
- relay output NO/NC type + siren output 12V/50mA
- Built-acoustic buzzer (with jumper off)
- sensor in removable, intelligent module
- Built-in microprocessor control = reliability, stability, thermal compensation system, alarm history
- styling housing, for wall mounting (cable entry from the plaster or mounting to a typical Ø60mm, flush-mounted box with screws at the edge)

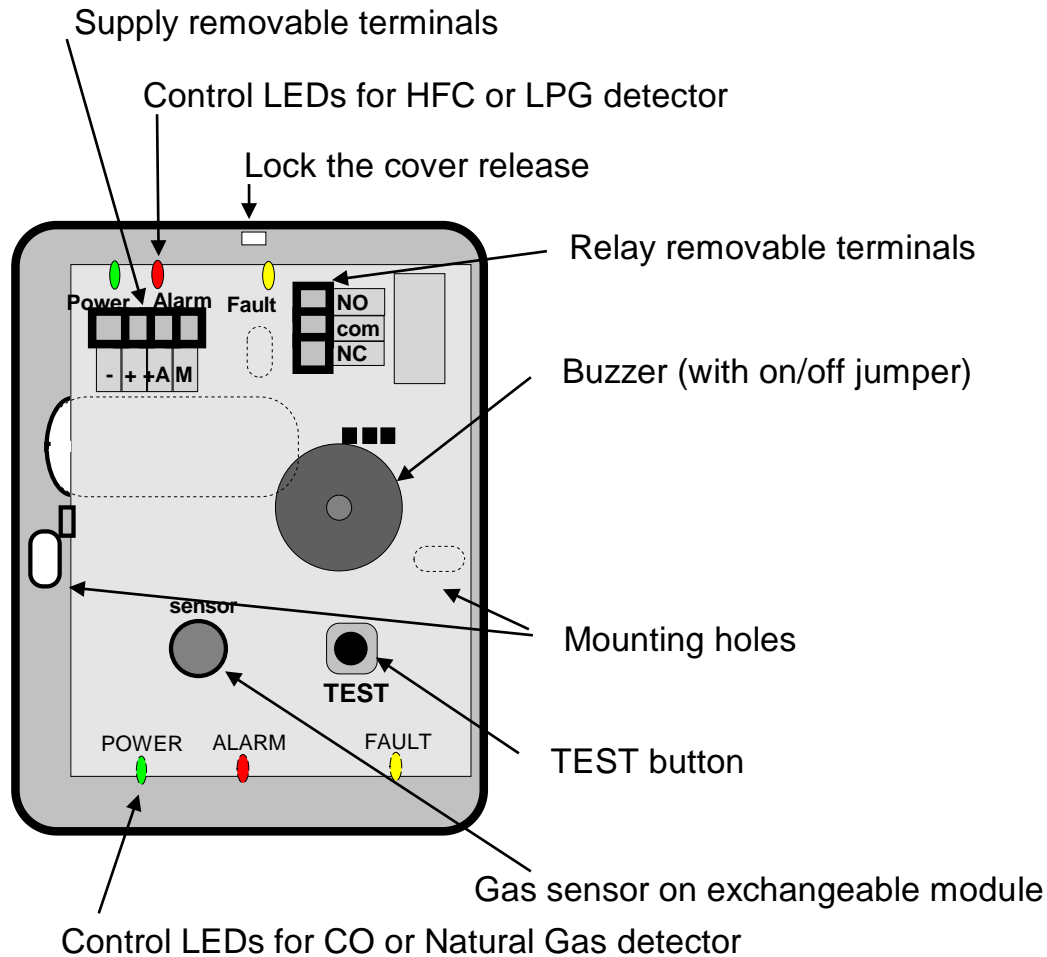
TECHNICAL SPECIFICATIONS

Model	DD-xx/AP
Power supply	12V DC (range: 10.5 ÷ 15.0V)
Supply current	max 50mA @12V DC
Operating temperature range	from 0°C up to +40°C recommended, -15°C to +50°C allowed periodically (<1h/24h)
Relative air humidity range	from 30% to 90% RH
Gas sensor	semiconductor type, in a removable module; estimated life time in the clean air - about 10 years
Detectable gases	DD-GZ/APs: Natural gas/CNG, other hydrocarbons DD-PB/APs: propane-butane/LPG, other hydrocarbons DD-CO/APs: carbon monoxide, range 20 ÷ 1000 ppm DD-FR/APs: HFC (Freon) type R134A, R407C or R410A
Interfering factors	hydrogen, alcohol (high concentrations), chloride, a significant oxygen deficiency (<19% vol.), a large, rapid increase in humidity, long-term presence of gases with concentrations > 1% LEL (combustible gases) or > STEL (toxic gases)
Alarm thresholds (standard)	ALARM = 2000ppm Freon R410A (DD-FR/APs) or 100ppm CO (DD-CO/APs); or 15 % LEL combustible gases (DD-GZ,PB/APs)
Alarm threshold accuracy	-20/+10% rel. for the recommended calibration conditions
Threshold thermal stability	± 15% in range 0°C to 40°C
Long term stability	± 20% rel./year, not more than ± 30% in 3 years
Calibration interval	recommended: < 36 months
Signaling : optical	lamps: -LED – ALARM = red, - POWER = green
acoustic:	75dB/30cm, piezoceramic buzzer (switchable by jumper)
Siren output	12VDC, max 50mA; plug in connectors
Relay output	NO/NC type; 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

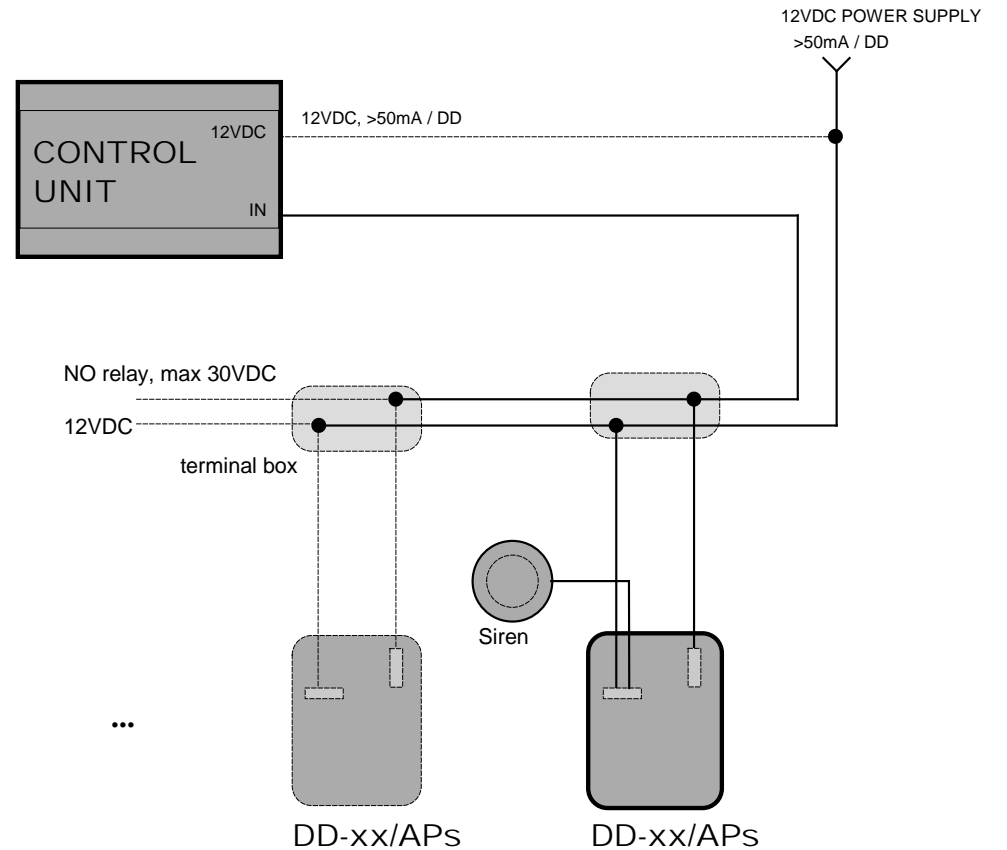
1000 ppm = 0,1% v/v , 10 000 ppm = 1% v/v

DETECTOR DESCRIPTION

View in mounting position (without front cover)



CONNECTIONS DIAGRAM



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