

RELIABLE, LOW OPERATIONAL COST

**DETECTORS AND DETECTION SYSTEMS
FOR TOXIC OR EXPLOSIVE GASES AND OXYGEN**

gazex®

**EUROPEAN QUALITY:
MANUFACTURING
INSTALLATION
MAINTENANCE**



DEX® DEX®/P DG



Ex - Explosion-proof type According to ATEX Directive			Standard type splash-proof casing
DEX-P1	DEX-1...	methane, propane, butane	DG-1...
DEX-P2	DEX-2...	carbon monoxide	DG-2...
DEX-P3	DEX-3...	solvents	DG-3...
DEX-P4	DEX-4...	ammonia	DG-4...
-*	DEX-5...	hydrogen sulfide	DG-5...
-	DEX-6...	freon	DG-6...
DEX-P7-C	DEX-7...	hydrogen, acetylene	DG-7...
DEX-P8	DEX-8...	argon, helium	
-*	DEX-9EF	oxygen	DG-9EF
-*	DEX-0E...	toxic gases: NO _x , SO ₂ , Cl ₂ ...	DG-0E...
With catalytic sensor	With semiconductor or electrochemical sensor		

* coming soon

The DEX® and the DG series are stationary, two-threshold toxic gas, explosive gas and oxygen detectors. They are designed to detect and indicate concentration levels harmful or dangerous to humans.

Models DEX/F... and DEX/ P may operate in potentially explosive atmospheres. They are explosion proof and compliant with the Directive ATEX.

Japanese made semiconductor gas sensors guarantee reliable and stable operation for up to 10-12 years. Electronic circuitry manufactured using the SMD technology, with built-in power supply controller, wire rupture detection and digital communication with the control panels, guarantee high reliability and efficient measurements. The gas sensor modules can easily be swapped, without removing detector from the site, this resulting in substantial REDUCTION of the operating cost of a detection system!

Selected detectors are optionally available equipped with catalytic, thermal conductivity or electrochemical sensors.

Modular design of the DEX® and the DG detector based systems, simple connections, no calibration at the installation site result in extremely simple and fast planning and installation.

All the detectors are calibrated and approved by the Institute of Industrial Chemistry (IChP) and each detector comes with an individual calibration certificate.

DEX® detectors are housed in flame-proof, Ex d IIB T6 or Ex d IIC T6 type enclosures, are certified by the Main Institute of Mining and comply with the requirements of the ATEX Directive in the application area Ex II 2 G .

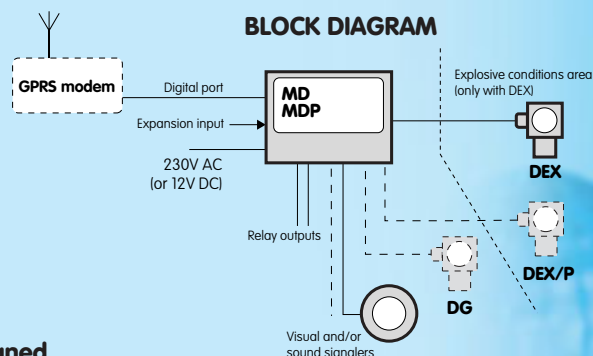
EXCHANGEABILITY OF SENSORS = INEXPENSIVE OPERATION FOR MANY YEARS

MD-2 /4 /8 /16 MDP-4 /8 /16

MD series Control panels are designed to:

- supply power to DEX® and DG series detectors,
- control the alarm signals generated by DEX® and DG series detectors,
- visually indicate detector alarm condition,
- check wire connections to detectors and their power supply,
- control external devices like automatic cut-off valves, other solenoid valves, fans, contactors, etc.,
- control external visual or sound alert systems,
- communicate with data transmissions systems via GPRS.

The MDP series Control panels have all the above features and are designed to work with DEX®/P detectors equipped with catalytic sensors.



MD-16.Z



MD-2.Z

Gas Detection System can be monitored by the GPRS using data transmission system to enable constant supervision of buildings in absence of personnel. Information on alarm conditions is transmitted to the appropriate authority or service provider using cellular telephony.

The system ensures bidirectional connection and transmission of commands to the system (e.g. to switch the ventilation on, to close the valve, to erase alarm memory).

GX Automatic Gas Safety System



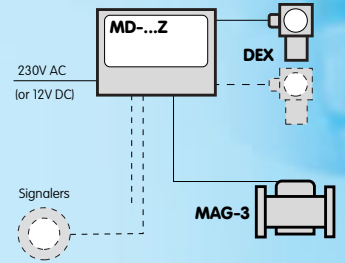
The GX system consist of the DEX[®] detectors, the MD-...Z control panel and the MAG-3 cut-off valve and is designed to eliminate gas explosion hazard in any room equipped with gas system.

Detection of gas concentration exceeding the permissible level results in actuation of the gas detector and instantaneous signal to the valve that will automatically cut off gas supply to the system. The valve may be opened again only manually, thus intentionally. The cut-off valve is independent of external power.

The MAG-3 valve can be used in potentially explosive atmospheres, according to ATEX Directive Ex II 2 G c T4 .

It can be used in gas fired boiler-rooms, public utility buildings, gas distribution stations, domestic gas fired boilers, and facilities equipped with gas fired water heaters or gas cooking ranges.

A system equipped with ZM butterfly valves of nominal diameters 125–500 mm (flangeless throttling valves with electric actuator) has been designed for large gas consumers.



WG-22 WG-2...EN

The WG-22 Microprocessor Controlled Carbon Monoxide Detector is a stationary, single-unit device, featuring EXCHANGEABLE gas sensor, power supply unit, visual and sound alarm and external equipment controller. It is designed for continuous monitoring of carbon monoxide presence at workstations and in the underground parking garages. It is particularly recommended for installation in boiler houses of all types as well as in car service and repair stations.

More than 25,000 users all over Poland have experienced efficiency of the system that proved particularly efficient and reliable in severe operating conditions.

The detector is based on Japanese made semiconductor sensor equipped with carbon filter (useful life approx. 10–12 years) mounted in the EXCHANGEABLE module.

Due to its microprocessor control unit, the detector features very SENSITIVE, ACCURATE, SELECTIVE AND STABLE measurements.

This Detector received the B certificate, as well as the CIOP and IChP conformity certificates. Each individual instrument has calibration certificate issued by the IChP.

The WG-2.E version (E-conomic or E-xtremely simple to install) is designed for use in the underground parking garages. Its design allows easy and inexpensive design and installation of control systems for ventilation.



WG-2.E

EXCHANGEABILITY OF SENSORS = INEXPENSIVE OPERATION FOR MANY YEARS

AirTECH

AirTECH SELECTIVE carbon dioxide detectors with the α SENSE infrared sensor (NDIR type).

The AirTECH detectors are designed for CO₂ concentration and temperature measurements in the following ranges:

- 0-2000 ppm
- 0-3000 ppm
- 0-4% vol.
- 0-10% vol.

Aside from measuring functions, the AirTECH may be used as:

- CONTROL UNITS for ventilation systems (α SENSE),
- Diagnostic tools for evaluating efficiency of ventilation systems (AirTECH vento),
- CO₂ concentration monitoring in mushroom-growing cellars and poultry farms (AirTECH agro),
- CO₂ concentration monitoring in breweries and green houses (AirTECH max),
- CO₂ concentration monitoring in fruit and vegetable stores (AirTECH duo - with oxygen sensor)

α SENSE controllers may be installed inside intelligent buildings. Climate controllers with temperature and relative air humidity measurement function are also available.





miniTOX® 3x

The miniTOX 3 is a portable multi-gas instrument designed for simultaneous measurement of concentration of explosive gases, 2 toxic gases with actual measurement of TWA and STEL as well as oxygen!

They are also designed for measuring concentrations of gases and vapors of hazardous substances at the workstation. Equipped with large display for easy readout and sound indicator for better operating safety. Saves measurements in memory, providing possibility to display them on a PC monitor screen.



Leakage Detectors

Professional and reliable gas leak detectors manufactured by leading suppliers: SF Detection, Bacharach.

DK-1 DK-2

Domestic natural gas or LPG alarm. It may be integrated into signalling or fire warning systems, fan control, cut-off valve or auxiliary siren circuits. Microprocessor controlled. Meet requirements of European Standard EN50194. Power supply: 230V AC or 12V DC 3-year warranty!



DDCO

Domestic carbon monoxide alarm. Sensitive, selective and reliable. Microprocessor controlled. May be used for fan or auxiliary siren control. It is particularly recommended for bathrooms equipped with gas water heaters and for rooms with fireplaces, double-function boilers or coal-fired furnaces. Power supply: 230V AC or 12V DC 3-year warranty!

GAZEX® is the winner of the following awards:

SAWO '93 – Industrial Safety and Life-saving International Fair
KATOWICE '94 – Industrial Safety and Fire Protection International Fair
SAWO '94 – Industrial Safety and Life-saving International Fair
KATOWICE '95 – Industrial Safety and Fire Protection International Fair
GRYF-GAZ '95 – 1st Specialist Gas Engineering Fair
POL-GAZ EXPO '96 – Gas Engineering Equipment International Fair
KATOWICE '97 – 11th Construction Industry Autumn Commodity Exchange
KRAKÓW '99 – 3rd TERMO Fair
TERM Warszawa '2000 – 7th Fitting Technology International Fair
GAZ-TECHNIKA Kraków '2001 – 2nd Gas Engineering Fair
KRAKÓW '99 – 5th TERMO Fair
SAWO '2001 – 13th Industrial Safety, Firefighting and Life-saving International Fair
GAZ-TECHNIKA Kraków '2002 – 3rd Gas Engineering Fair
INSTALACJE Poznań '2002 – 4th Installation Technology International Fair
INSTAL-EXPO Warszawa '2002 – 11th Sanitary, Heating, Gas and Air Conditioning Engineering International Fair
SAWO '2002 – 14th Industrial Safety, Firefighting and Life-saving International Fair
GAZ-TECHNIKA Kraków '2003 – 4th Gas Engineering Fair
POL-GAZ-EXPO '2003 – 7th Gas Engineering Equipment International Fair
SAWO '2003 – 15th Industrial Safety, Firefighting and Life-saving International Fair
GAZ-TECHNIKA Kraków '2004 – 5th Gas Engineering Fair
POL-GAZ-EXPO '2004 – 8th Gas Engineering Equipment International Fair

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