■ Gas detectors   DEX®   DG

Ex–Explosion-proof type According to ATEX Directive		Medium	Standard type splash-proof housing		
DEX-1...	DEX-P1...	methane, LPG	DG-1...	DG-P1R	DG-...1.../M
DEX-2...	DEX-P2E...	carbon monoxide	DG-2...	DG-P2E...	DG-...2.../M
DEX-3...	DEX-P3...	solvents	DG-3...	DG-P3R...	DG-...3.../M
DEX-4...	DEX-P4...	ammonia	DG-4...	DG-P4E...	DG-...4.../M
–	–	hydrogen sulfide	DG-5E...	DG-P5E...	DG-...5.../M
DEX-6...	DEX-P6R7	Freons, SF_6	DG-6...	DG-P6R7...	DG-...6.../M
DEX-7...	DEX-P7...	hydrogen, acetylene	DG-7...	DG-P7E...	DG-...7.../M
DEX-8...	DEX-P8R...	CO_2	DG-8R...	DG-P8R...	DG-...8R.../M
DEX-9E...	DEX-P9E...	oxygen	DG-9E...	DG-P9E...	DG-...9E.../M
–	–	toxic: NO_x, SO_2,...	DG-0E...	DG-P0E...	DG-...0E.../M
▲	▲		▲	▲	▲
two-threshold version	4-20 mA version		two-threshold version	4-20 mA version	two-threshold or measuring RS-485 version

DEX/F
DEX/P
DEX/A

DG/F
DG/P
DG/M

DEX/F-G
DEX/P-G
DEX/A-G

DG/PV
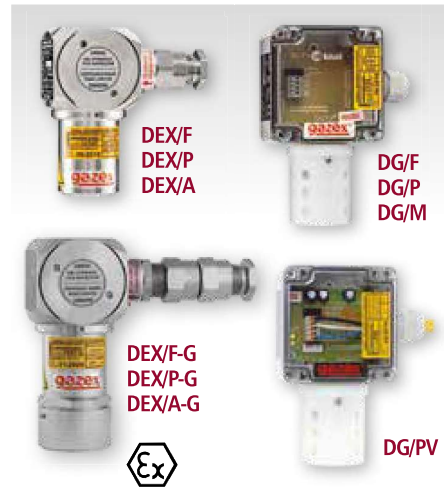
Stationary detectors of toxic, explosive gases and oxygen of the DEX® and DG type are designed to detect and signal the presence of gases with concentrations harmful to people or dangerous in the work and life environment. DEX® detectors, depending on the version, meet the requirements of Directive 2014/34/EU (ATEX) in the area of application: ⟨Ex⟩ II 2G or ⟨Ex⟩ II 2GD or ⟨Ex⟩ I M2 II 2GD.

The detectors are available in the following versions:
- ■ two-threshold (with factory-set alarm concentration thresholds) – DEX/F, DEX/F-G and DG /F type;
- ■ concentration measuring (with passive analog output in the 4-20 mA standard) – DEX/P, DEX/P-G, DEX/A, DEX/A-G (threshold operation) and DG/P type;
- ■ addressable with a digital output in the RS-485 standard (with the MODBUS RTU protocol) – DG/M type;
- ■ concentration measuring type with two analog outputs (active current 4-20 mA and voltage 2-10 V) – DG/PV type (for use with control panels/ controllers of other manufacturers)

All models of detectors are equipped with INTERCHANGEABLE semiconductor, catalytic, electrochemical or optical (Infra-Red) sensors selected for the application. Replaceable, intelligent sensor modules have built-in algorithms for thermal compensation, linear compensation, calculation of weighted averages (TWA, STEL), measurement history and signaling of exceeding a recommended calibration period. The interchangeability of the sensor modules enables the parameters of the detector to be changed without the need to disassemble / modify it, and facilitates, accelerates and significantly reduces the operating costs of the detection system.

EXCHANGEBILITY OF SENSORS = COST-EFFECTIVE LONG-TERM OPERATION

The modular design of the DEX® and the DG detector based systems guarantee fast design and simple installation.

Each detector comes with an individual certificate issued by GAZEX Calibration Laboratory operated under EN ISO/IEC 17025 standard and controlled by the Polish Centre for Accreditation (PCA).

■ Control Units   MD   MDP

Control Units MD type are designed to:
- – power supply for two-threshold type DEX/F, DG/F and DG.EN type detectors
- – visually indicate detectors alarm condition
- – check wire connections to detectors and their power supply
- – control external devices like automatic shut-off valves, other solenoid valves, fans, contactors, etc.
- – control external optical or accoustic signaling devices
- – communicate with data transmission or data logging systems via RS-485 or GSM.

Control Units MDP type have all of the above features and are additionally designed to work also with type DEX/P, DEX/A and DG/P detectors equipped with 4-20 mA standard output.

MD-1.A/T and MDP-1.A/T are single channel Control Units for two-threshold or 4-20 mA output detector (for mounting on DIN rail).

MD-1.Z   MD-2.Z   MDP-8

MD-1.A/T   MDP-1.A/T