MIRA SAFETY

AXIOM

Fixed gas detector

AXIOM series of gas detectors is explosion-proof and designed for continuous monitoring of hazardous concentrations of flammable, toxic gases, volatile organic compounds (VOC) and oxygen (O2) in the air of the working area.

Features and benefits

- Applicable sensor types: PID, LEL, EC, MEMS and IR (hydrocarbons, CO_2, freons);

- Simultaneous presence of output signals: 4-20 mA/HART, relay: "Threshold 1", "Threshold 2", "Threshold 3/ Alarm", RS-485 Modbus RTU;

- Replacing the sensor without removing the power supply from the sensor (hot);

- Possibility of replacing the sensor with another type;

- Ambient temperature range from -60°C to +65°C;

- LED status indicator (operation, error, service);

- Availability of explosion-proof light and sound alarm MX-SLA*;

- Bright OLED display for displaying readings and accessing menus;

- Access to settings and calibration: magnetic key, HART, HART connector*, RS-485 (Modbus), Bluetooth*;

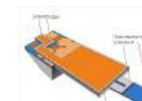- Four holes for two cable entries (4-20 and relay), HART, MX-SLA siren.

SMART-sensor

- Non-volatile memory of the SMART sensor for storing settings;
- The built-in temperature sensor provides adaptive heating of the SMART sensor.
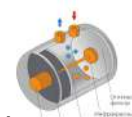
- 3 years warranty
- 20 years service life

Optional

Gases	Explosive gases, toxic gases, volatile organic compounds (VOC) , freons, oxygen
Temperature Range	-60°C to +65°C*
Ex marking	1 Ex d [ia Ga] IIC T6 Gb X
Ingress Protection	IP66/ IP67
Supply Voltage	24V (nominal) Range: 12-36V
Communication	OLED-display 4-20 mA HART RS-485 (Modbus) Bluetooth (for gas detector configuration)* 3 Relays "Threshold 1", "Threshold 2", "Threshold 3/Accident"
Permissible Humidity	< 98% (non-condensing)
Operating Pressure	80 - 120 kPa
Measurement Mode	< 2 W
Nominal Settling Time Of The Output Signal At The Level T0.9	10 sec IR 15 sec LEL, MEMS 30 sec EC 30 sec PID
Gas Analyzer Warm-up Time Limit	10 min IR, PID 60 min LEL, EC 20 min MEMS
Mean time between failures	100000 h IR 35000 h LEL, EC, PID 70000 h MEMS
Customization	Magnetic key, Bluetooth*, HART, RS-485 (Modbus)
Material	Aluminum alloy, stainless steel 316L
Dimensions	150x110x235 mm
Weight	2,6 kg. (aluminum alloy), 4,5 kg. (stainless steel)

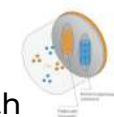## Modifications

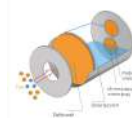ATOM-MEMS with semiconductor sensor

ATOM-IR with infrared sensor

ATOM-LEL with thermocatalytic sensor

ATOM PID with photoionization sensor
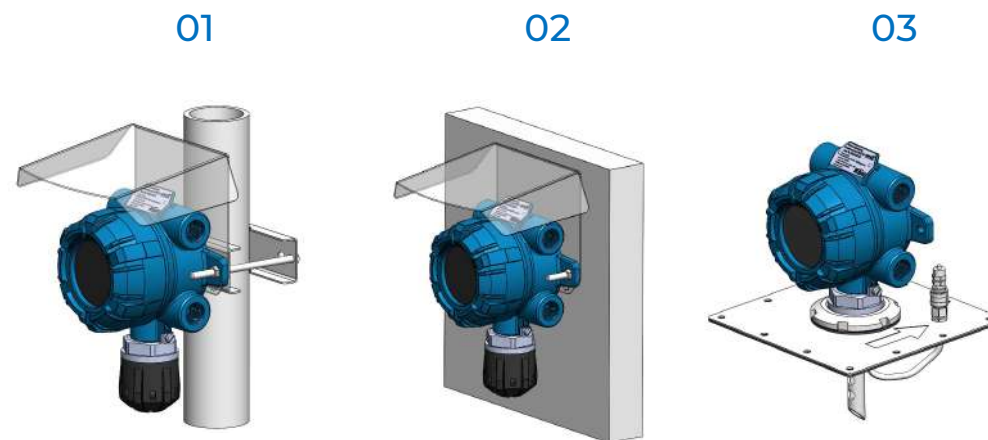

ATOM-EC with electrochemical sensor

*Optional

Accessories

01

02

03

04

05

06

07

08

01. Light and sound siren MX-SLA
02. HART connector
03. Anti-vandal protection
04. Insect guard
05. Calibration nozzle
06. Protective visor from the sun and precipitation
07. Pipe mounting kit (pipe diameter 38-68 mm)
08. Duct mounting kit

Fast and convenient installation

01

02

03

01. Type of mounting for pipe mounting
02. Mounting type for wall mounting
03. Type of fastening for installation in an air duct

MIRAX0324-Axiom_v1

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