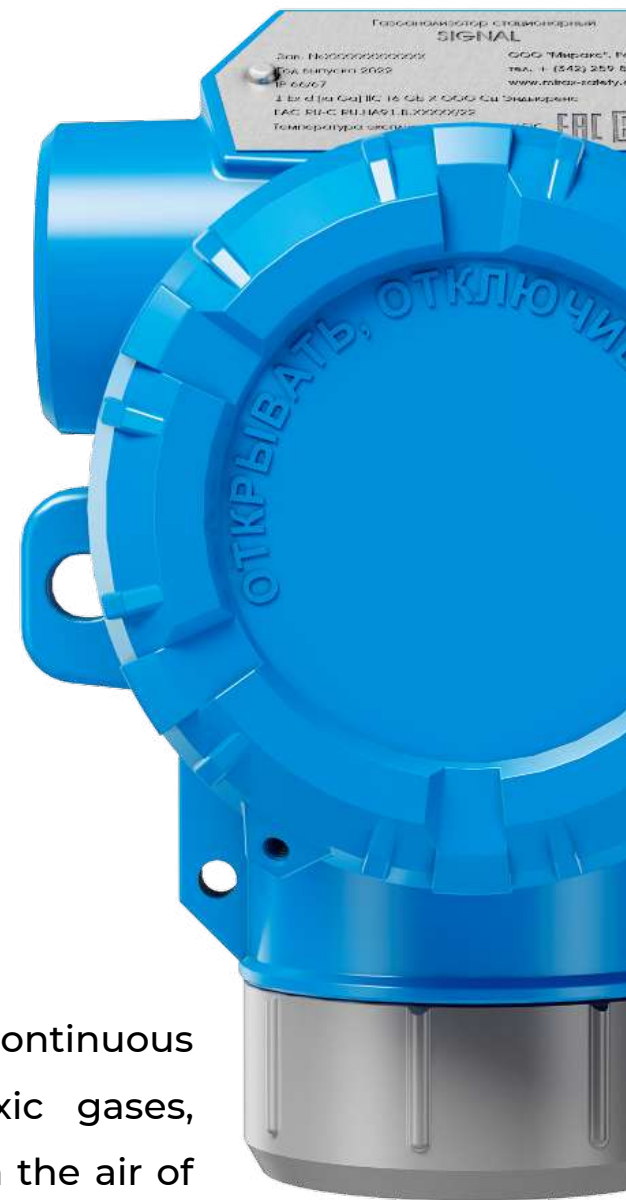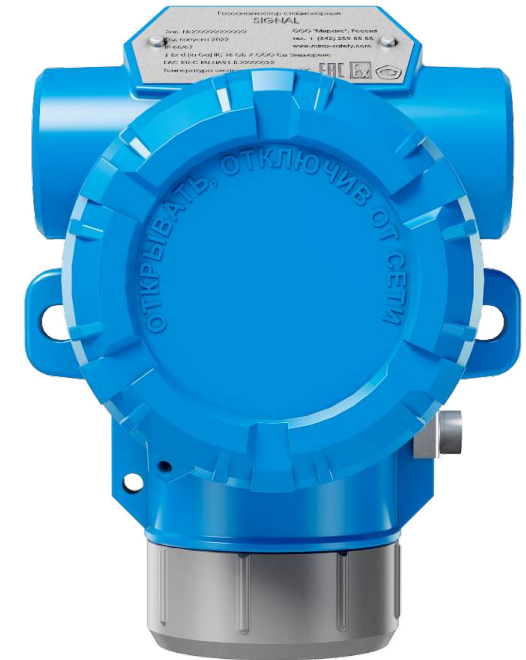# MIRA SAFETY

SIGNAL

Fixed gas detector

SIGNAL is explosion-proof and designed for continuous measurement of concentrations of flammable, toxic gases, volatile organic compounds (VOCs) and oxygen (O2) in the air of the work area.

Features and benefits

- Types of sensors used: PID, LEL, EC, MEMS and IR (hydrocarbons, CO2);

- Output signals: 4-20 mA or mV, or RS-485 Modbus RTU;

- Possibility of replacing the sensor with another type;

- Ambient temperature range from -60°C to +65°C (+165°C for HT);

- Access to settings and calibration: magnetic key, UART, RS-485 (Modbus);

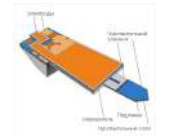- Two holes for M20 cable entry.

SMART-sensor

- Non-volatile memory of the SMART sensor for storing settings;
- The built-in temperature sensor provides adaptive heating of the SMART sensor.

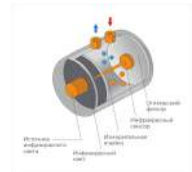- 3 years warranty
- 20 years service life

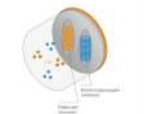|	
Gases	Explosive gases, toxic gases, oxygen
Temperature Range	-60°C to +65°C (+165°C for HT)
Ex marking	1Ex db IIC T6 Gb X 1Ex db IIC T3 Gb X
Ingress Protection	IP66 / IP68
Supply Voltage	24V (nominal) Range: 16-36V
Communication*	4-20 mA RS-485 (Modbus) Potential mV
Permissible Humidity	< 98% (non-condensing)
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, no more	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 USB-UART adapter for PC
Material	Aluminum alloy, stainless steel 316L
Dimensions	130x100x80 mm
Weight	2 kg (aluminum alloy), 3,9 kg (stainless steel)

Modifications

ATOM-MEMS with semiconductor sensor
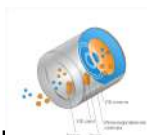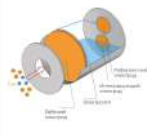
ATOM-IR with infrared sensor

ATOM-LEL with thermocatalytic sensor

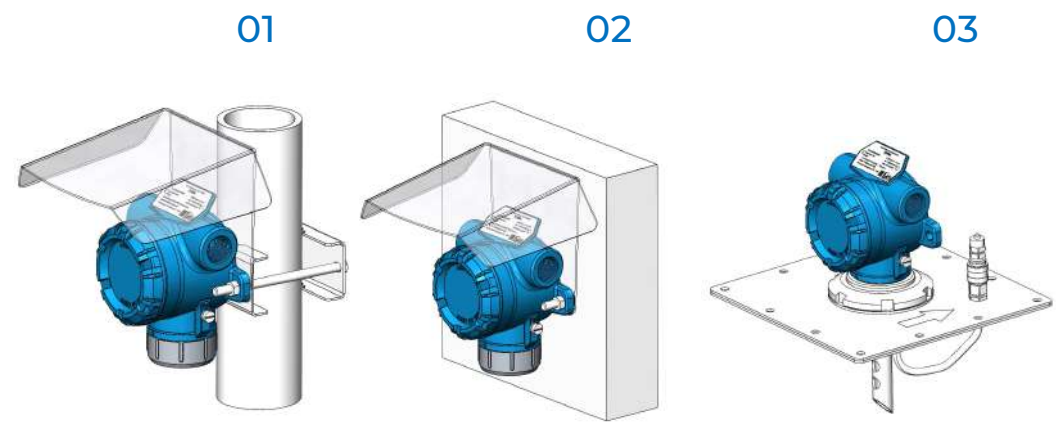ATOM PID with photoionization sensor

ATOM-EC with electrochemical sensor

*Optional

Accessories

01

02

03

04

05

06

01. Anti-vandal protection
02. Insect guard
03. Calibration nozzle
04. Protective visor from the sun and precipitation
05. Pipe mounting kit (pipe diameter 38-68 mm)
06. 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-SIGNAL_v1

www.mirax-safety.com