



Standalone programmable detector designed for the detection of toxic gases and O₂ using electrochemical technology and CO₂ using infrared technology.

Provided with a backlit 16 X 2 line display, three keys, programmable relay output and internal acoustics.

Special functions:

- Digital control of sensor status
- Hardware status automatic testing
- Digital filter based on variable samplings of the averages in sensor values
- Automatic thermal compensation that supplies a correct answer when faced with temperature variations (STANDGAS O₂ does not need this characteristic)
- Exact automatic zero adjustment. Monitors zero in relation to the sensor response and the electronics. STANDGAS automatically carries out a test every 30 minutes: if the drift is greater or lesser than 2% of the total value of the scale, it will readjust to zero; if not the data will be shown as a reading
- Other functions only accessible in factory allow it to know the remaining useful life of the sensor, date of manufacture and of last calibration, as well as the serial number

- **Standalone functioning:** without connection to a control panel
- **Display** backlit 16 x 2 line
- **Protection** grade IP65
- **Universal support** with inclination for ceiling and floor – optional
- **Power** adapter, 230V with capacity to connect from 1 to 10 units of STANDGAS detectors – optional

AVAILABLE GASES

Carbon Monoxide CO – Nitrogen Dioxide NO₂ – Ammonia NH₃ – Hydrogen sulfide H₂S – Chlorine Cl₂ – Carbon dioxide CO₂ – Sulfur dioxide SO₂ – and Oxygen O₂ Hydrogen H₂, Nitric Oxide NO, Nitrous Oxide N₂O, Formaldehyde CH₂O, Ozone O₃ and EXP
Refrigerants: SF6, R507, R134a, R404a, R407a, R407f, R410a, R449, R417a, R448a, R227ea, R1233zd, R513a, R422d, R125, SF6, R143a, R452a, R32, R1234yf, R1234ze, R452b, R454A, R45 4B, R454C

APPLICATIONS

- Pharmaceutical laboratories – University laboratories – Aviation industries – Galleries – Distilleries
- Livestock farms – Boiler rooms – Industries in general

WARRANTY

STANDGAS PRO LCD detectors are guaranteed against any manufacturing defect for 1 year after date of purchase of the equipment. Warranty conditions are included in the installation manual of the detector.

FACTORY PARAMETERS

GAS	INSTALLATION HEIGHT	RANGE	PREALARM L	ALARM L	RELAY AT REST	REARM	AREA COVERED
CO	1.50/2m. Floor	0-300 ppm	50 ppm	75 ppm	DEACTIVATED	AUTO.	Approx. 200m ²
NO ₂	1m. Floor	0-20 ppm	3 ppm	5 ppm	DEACTIVATED	AUTO.	Approx. 100m ²
NH ₃	30/40cm. Ceiling	0-100 ppm	5 ppm	8 ppm	DEACTIVATED	AUTO.	Approx. 50m ²
H ₂ S	1m. Floor	0-100 ppm	5 ppm	10 ppm	DEACTIVATED	AUTO.	Approx. 100m ²
CO ₂	1m. Floor	0-20.000 ppm	5.000ppm	10.000 ppm	DEACTIVATED	AUTO.	Approx. 100m ²
O ₂	1.70m. Floor	0-25%	19%*	18%*	DEACTIVATED	AUTO.	Approx. 100m ²
Cl ₂	30/40cm. Floor	0-10 ppm	0.5 ppm	1 ppm	DEACTIVATED	AUTO.	Approx. 75m ²
SO ₂	30/40cm. Floor	0-20 ppm	2 ppm	5 ppm	DEACTIVATED	AUTO.	Approx. 100m ²
H ₂	30/40cm Floor	0-500ppm	50ppm	100 ppm	DEACTIVATED	AUTO.	Approx. 25m ²
NO	1m. Floor	0-20 ppm	3 ppm	5 ppm	DEACTIVATED	AUTO.	Approx. 25m ²
N ₂ O	40/50cm. Floor	0-1000 ppm	20 ppm	40 ppm	DEACTIVATED	AUTO.	Approx. 25m ²
CH ₂ O	1.70/2m. Floor	0-5 ppm	0.30 ppm	0.50 ppm	DEACTIVATED	AUTO.	Approx. 25m ²
O ₃	1m. Floor	0-10 ppm	0.30 ppm	0.50 ppm	DEACTIVATED	AUTO.	Approx. 25m ²
EXP	It depends on the gas.	0-100% LEL	20%	40%	DEACTIVATED	AUTO.	Approx. 16m ²
REFRIGERANT GASES							
SF ₆ , R507, R134a, R404a, R407a, R407f, R410a, R449, R417a, R448a, R227ea, R1233zd, R513a, R422d, R125, SF ₆ , R143a, R452a	30-40 cm above the floor (almost all of them)	0-2000ppm	300ppm	600ppm	DEACTIVATED	MANUAL	Approx. 25m ²
R32, R1234yf, R1234ze, R452b, R454A, R454B, R454C	It depends on the gas	0-100% LEL	20%	40%	DEACTIVATED	MANUAL	Approx. 25m ²

TECHNICAL CHARACTERISTICS

Technology	Electrochemical/infrared sensor + 12bit microprocessor
Power supply tension	From 10V to 24V DC
Maximum consumption at 12V DC	43 mA at rest – 73 mA, acoustics and relay activated / 3 mA and 30 mA CO ₂
Gas measurement range	See Factory Parameters table
Resolution	± 1% F.S. toxic -0.25% O ₂ and 1.5% CO ₂
Reproducibility	± 2% F.S.
Annual span drift	± <1% electrochemical / 0.7% CO ₂
Stabilization time	< 5 minutes – all specifications –
Response time T90	CO, NO ₂ SO ₂ & NH ₃ ≤ 30s / H ₂ S ≤ 20s / O ₂ ≤ 15s / CO ₂ ≤ 15s
Approx. useful life (MTBF)	2 years electrochemical NH ₃ , H ₂ S, NO ₂ Cl ₂ SO ₂ & O ₂ , 4 years CO & > 6 years CO ₂
Maintenance periods	Annual – recommended –
Environmental conditions	-10°C to +50°C and from 0 to 90% H.R. without condensation
Atmospheric pressure limits	80 to 110 kPa (0.8 to 1.1 bar)
Alarm relay	Commutated output dry contact 3A 250V AC fuse protected
Coverage area	See Factory Parameters table
Material and protection grade	Makrolon & ABS IP65
Cable entry and diameter	Cable glands /6 -10mm ²
Dimensions in mm. and weight in gr.	120 X 160 X 60 / 350

Characteristics under conditions of 20 °C, 50% RH, 1000 mbar (100 kPa)