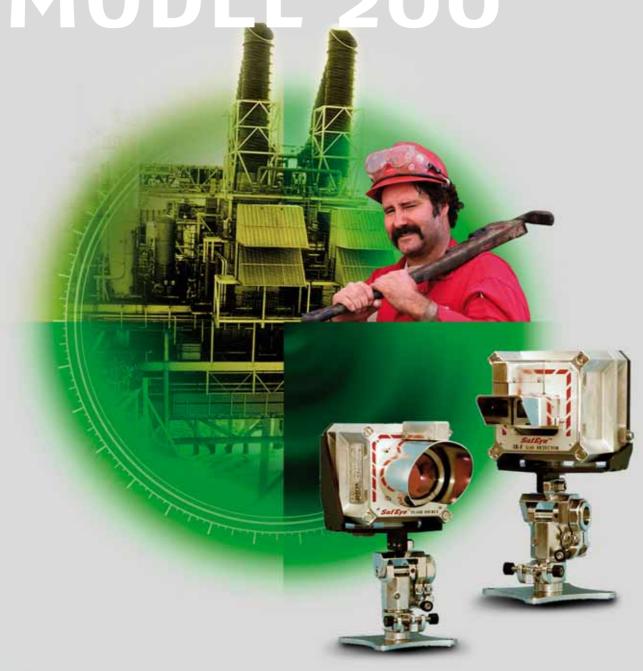


OPEN PATH GAS MONITORING SYSTEMS



WELL-PROVEN HIGH RELIABILITY



MAIN FEATURES

PROVEN TECHNOLOGY

Used in highly sensitive areas to detect low gas concentration levels to activate alarms measures only when specific hazardous concentration levels are exceeded.

Thousands are installed on offshore platforms, FPSO's, refineries and other onshore applications operated by British Petroleum (BP), Shell, ExxonMobil, Statoil and others.

COST SAVING

One system can replace from 5 to 20 point gas detectors in a straight line of sight, up to 460 ft. (140 m). Low cost of ownership, much lower installation cost!

FAST RESPONSE

Adjustable light source flash rate gives high sensitivity and extremely fast detection time. Also prevents detector from going into obscuration when a large cloud of gas passes through the beam.

HARSH ENVIRONMENT

Specially designed to perform under extreme conditions such as high-speed airflows, humidity and corrosive gases where point detectors may not be effective.

LOW MAINTENANCE

High reliability, simple installation, alignment and maintenance, equipment not subject to poisoning.

STANDARD INTERFACE OPTIONS

Standard 4-20 mA outputs or RS-485 output to allow networking (up to 64 detectors) to a central monitoring/PC system.

This feature also enables easy maintenance, local and remote diagnostic tools.



SafEye 200 Open Path Gas Detector is a self-contained, fast response optical gas detection system. It detects combustible gases at concentrations lower than the explosion limit (LEL) over a "Line of Sight" of up to 460 ft. (140 m) long.

SafEye is the preferred system for offshore oil companies because it is immune to false alarms caused by partial blockage and extreme weather conditions (fog, rain, snow) and direct or reflected sunlight, flame and other black body radiation sources.



The SafEye system can be factory calibrated to a gas mixture most probable to leak in a specific location. This results in the most accurate gas concentration measurement.

SafEye is fully functional in heavy fog, rain, etc., which result in up to 90% of the signal obscuration. In a North Sea offshore installation, tested for over six harsh winter months which included very dense fog, snow and rain, the SafEye was fully operational at all times

SafEye is built for reliability and continued operation under all types of extreme environmental conditions. This is the field experience, which is demonstrated by the SafEye operational installations, ranging from the very humid and hot Far East to the wet and cold North Sea to the dry and cold slopes of Alaska.

The SafEye, due to its special optics design, provides for a misalignment tolerance of ±1° in all directions and is protected against false gas reading and alarms.

The SafEye unique flash source gives a very powerful radiation signal for a very short time, less than one millisecond at pre-selected intervals. This patented feature enables the detector to address only the high intensity and ultra fast signals that correspond to fast changes in gas concentration, while ignoring all other background radiation.

	ATIONS	202/255	202/255	20//27/	00/10=/	227/257	
Detection Range	Model No.	202/252	203/253	204/254		227/257	
and Response Time	Distance (ft) Distance (m)	9.8-39 3-12	33-131 10-40	50-198 15-60	98-295 30-90	164-460 50-140	
	Response Time		5 sec.	5 sec.	5 sec.	5 sec.	
Detected Gases		C_1 - C_8 flammables by models 202-227, Ethylene by models 252-257					
Immunity to False Alarm	Not influenced by solar radiation, hydrocarbon flames and other of						
	IR radiation so	IR radiation sources					
Spectral Response	•	3.0-4.0 µm					
Sensitivity Range		0-5 LEL.m Standard 0-2 LEL.m by dip-switch setting					
Displacement/Misalignment Tolerance	±1°	±1°					
Drift	Long-term ±5%	Long-term ±5% of full scale					
Temperature Range	-40°F (-40°C) to	-40°F (-40°C) to 131°F (55°C)					
ELECTRICAL SPECIF	ICATIONS						
Power Supply	Standard - 24 V	Standard - 24 VDC (18-32 VDC)					
Power Consumption		Detector: 150mA @ 24 VDC (200 mA Peak) Source: 100mA @ 24 VDC (220 mA Peak)					
Electrical Connection		2 x 3/4" - 14NPT conduits or 2 x M25 x 1.5 mm ISO					
Electrical Input Protection		Complete electrical interface protection against reversed polarity voltage surges and spikes according to MIL-STD-1275A					
Electromagnetic Compatibili	ty EMI/RFI protec	cted CE Ma	rked				
Оитритѕ							
4-20mA		The 4-20mA current output is source configuration Resistance Loop 100-600 Ω					
RS-485		Serial communication for full control with maintenance and trouble shootin facility can be integrated for a network of max 64 detectors					
Relays	Alarm SP Accessory SP	DT NO	ormal Posi O, NC pen losed	2A 5A	at 30VDC	tings or 0.5 at 250 VAC or 250 VAC or 250 VAC	
MECHANICAL SPECI	FICATIONS						
Dimensions	5.2" (132mm) x	x 5.2" (132t	nm) x max	x. 11" (280	mm)		
Weight Al. Enc St. Enc		Detector: max 8.8 lb (4 kg) Source: max 10.8 lb (4.9 kg) Detector: max 14.3 lb (6.5 kg) Source: max 16.7 lb (7.6 kg)					
Mechanical Design	aluminum. The available in 310	The standard detector housing is heavy-duty, copper-free (less than 1%) aluminum. The housing is finished in white epoxy enamel and is also available in 316L Stainless Steel* upon request. * Carries an additional charge.					
Environmental Standards		Meets MIL-STD-810C for Humidity, Salt & Fog, Vibration, Mechanical shock High Temp, Low Temp					
Water and Dust Tight	IP66 and 67 NEMA 250 6P						
HAZARDOUS AREA APPROVA	ALS						
	EX II 2G EExd EX II 2G EExde						
HAZARDOUS ÅREA ÅPPROVA ATEX UL	EX II 2G EExd	$=$ IIB + \overline{H}_2	T6 (55°C)	and D Ha	zardous L	ocation	

Accessories

The following optional accessories designed for the SafEye system are available.

MOUNTING

• **Swivel mount** -The

swivel mount is made of stainless steel 316L. The swivel mount enables the detector to rotate up to 30° in all directions and fine alignment of up to 3°. (P/N 94765)

• **Tilt device** - Stainless steel 316L, designed for easy and precise alignment. Enables the detector to rotate up to 30° in all directions and fine alignment of up to 5°. (P/N 796640)

FUNCTION CHECK FILTER

Used for on-site functional testing of the detector (P/N 794260).

ALIGNMENT TELESCOPE

Is used for simple on-site alignment of the detector with the light source. (P/N 794110)

MAGNETIC SWITCH

The magnetic mode selector is used in the field to change the detector's modes for alignment and calibration procedures (P/N 790285).



TYPICAL APPLICATIONS

Offshore Oil & Gas Exploration Oil Rigs and FPSOs; Onshore Oil & Gas Terminals; Storage Farms and Filling Stations; Petrochemical and Chemical Industries; Power Utilities and Turbines areas; Waste Processing and Treatment; Transportation Terminals; Automotive, Painting, Printing, Pharmaceutical Industries and many more...

Specific applications include: • Fence-line emission monitoring • Process and storage areas • Control rooms and auxiliary equipment enclosures • Vessels and tanks roof monitoring • Bus garages and terminals (switching from diesel to natural gas) • Pipelines • LNG-LPG storage, pumping and filling • Paint-booths and paint production

Represented by:

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