SafEye Quasar 950/960 H₂S and Ammonia Open Path Gas Detectors



FEATURES & BENEFITS

- Long Range Toxic Gas Detection up to 200ft (60m)*
- Detection of toxic gases
- 950 Series detects H_2S
- 960 Series detects NH_3
- High Sensitivity and fast response
- Heated optics to improve performance in ice, condensation and snow conditions
- Continuous operation in extreme and harsh environmental conditions
- Solar blind and immune to industrial environments
- Withstands extreme vibration conditions
- Multiple output options for maximum flexibility and compatibility
 - 0-20mA
 - HART Protocol for maintenance and asset management
 - RS-485, Modbus Compatible
- Simple, one person installation, alignment, and calibration

The latest SafEye Quasar open path UV detection technology includes the 950 and the 960 series. The Quasar 950 models detect toxic Hydrogen Sulfide gas and the Quasar 960 models detect toxic Ammonia gas, both with path lengths of up to 200ft (60m). The Quasar 950 and 960 models can be tailored to protect your personnel and high-risk installation. Reliability is key and is assured with SIL2.

All Quasar 950/960 detectors incorporate heated windows to minimize any effects from condensation, icing, snow and are totally immune to interference from sunlight or any other sources of radiation such as flare stacks, arc welding or lightning. A range of outputs are available including 0-20mA, HART, Modbus RS485 to suit all control systems.

- Programmable configuration via the handheld unit
- Fast connection to I.S. approved handheld diagnostic/calibration unit
- 3mA "maintenance call"
- 3 Year Warranty
- ATEX & IECEX Ex II 2 (2) G D Ex db eb ib [ib Gb] IIB+H2 T4 Gb Ex tb IIIC T135°C Db
- TR CU/EAC
- Inmetro (UL)
- Safety Integrity Level SIL2 (TUV)

APPLICATIONS

Offshore platforms & FPSOs Petrochemical plants Chemical processing plants Gas filling and distribution terminals Gas transport and pipelines Perimeter monitoring

*An 80% reduction in the maximum distance is recommended in adverse conditions.



Detected Gases	Detection of t	oxic gases s	uch as Hvdrogen	Sulfide (H ₂ S) and	Ammonia	
Vodel	951	961	952	962	953	963
Detection Range	17-66ft	17-66ft	50-132ft	50-132ft	115-200ft	115-200ft
	5-20m	5-20m	15-40m	15-40m	35-60m	35-60m
Detected Gas	H _s S	Ammonia	H _s S	Ammonia	H _s S	Ammonia
Response Time	T90≤10 sec	Annionia	H ₂ 0	Ammonia	11 ₂ 0	Annonia
mmunity to False Alarm	Not influenced by solar radiation, hydrocarbon flames and other external IR radiation sources					
	200-300nm					
Spectral Response						
Sensitivity Range	0-500 ppm.m	1				
Displacement/Misalignment Tolerance	±1°					
Drift	Long torm +5	% of full cool	2			
emperature Range	Long term ±5% of full scale –67°F to 149 °F (–55 °C to 65 °C)					
	Up to 95% non-condensing (withstands up to 100% RH for short periods)					
lumidity	00 10 95% 10	n-condensing	g (withstands up t	0 100% RH for Sh	ort periods)	
ELECTRICAL SPECIFIC	CATIONS					
Operating Voltage	24 VDC nominal (18-32 VDC)					
Power Consumption	Detector: 250mA (300mA peak)					
ower consumption	Detector: 250mA (300mA peak) Source: 250mA (300mA Peak)					
Varm up Time	60 sec for transmitter and receiver					
Electrical Connection (specify)	2 x 3/4" – 14NPT conduits or 2 x M25 x 1.5mm ISO					
Electrical Input Protection	According to MIL-STD -1275B					
Electromagnetic Compatibility	EMI/RFI protected to EN50270					
	EIMI/ RFI prote		5270			
OUTPUTS						
)-20mA Current Output	Sink (source (ontion) config	uration - maximu	m load of 500 Ω a	t 18-32VDC	
	Gas reading		-20mA		/beam block	2mA
	Normal, zero		mA	Zero calibra	,	1mA
	Maintenance	0	mA	Fault		OmA
	Misalignment		.5mA	- Grant		011111
ART Protocol	U		tions on the 0 -20	OmA analog curre	nt (FSK) - used	for maintenance
	and asset ma			0	()	
RS-485	RS-485 Modk	ous compatib	le communicatior	n link that can be	used in compu	ter controlled
	installations					
	motunations					
/isual Status Indicator		Green – Powe	r on, Yellow – Fau	ılt, Red – Alarm		
	3 color LED: (Green – Powe	r on, Yellow – Fau	ılt, Red – Alarm		
MECHANICAL SPECIF	3 color LED: (ICATIONS					
	3 color LED: (TCATIONS - Source and	detector hous	sings are Stainles	ss Steel 316L with		
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Specifications subject to change For more information view manual or website www.spectrex.net SPECTREX