GDES Addressable Gas Detector

The GDES Addressable Gas Detector is a cutting-edge device designed for effective gas detection, making it an essential tool for enhancing safety in homes, offices, and industrial settings. Its sleek design allows for seamless integration into any environment, providing real-time alerts to keep users informed and secure.

Featuring different sensing technologies such as infrared, catalytic, electrochemical and photoionization, the GDES excels in identifying gas presence in the environment that will have potential risk for personal and the facilities which the detector is monitoring. The gas detection capability ensures that users are alerted promptly in the event of sgas leakage allowing for swift action and improved safety. This reliable performance gives users peace of mind, knowing their spaces are being actively monitored.

With a user-friendly interface, the GDES Addressable Gas Detector easily integrates with various platforms. A dedicated app enables effortless configuration and instant alerts, empowering users to monitor their environment from anywhere. This connectivity enhances user experience and ensures that safety is always a priority.

Durable and versatile, the GDES Addressable Detector is perfect for a wide range of applications, from residential safety to industrial compliance. Its robust construction ensures reliable performance in various condition..

The different sensing options allow it perfectly monitor any hydrocarbon gasses, or any toxic gasses present in the atmosphere. Oxygen deficiency sensing modes are also available.

Areas of Use	Feature and benefits
• Power stations and petroleum and gas stations • Commercial Buildings • Hotels • Tank ships and other vessels • Apartment • Storage of oily products Oil and gas industry LNG/PNG processing and • Offshore Platforms	• Automatic and Manual self check for any internal component failure. • Dual Color Status LED • Immune to false alarms • Ultra Fast Response Time • Combustible & Toxic Gas Detection • Internationally Certified • Different sensitivity modes • Display Option Available • RS-485 & DIP Switch Address Setting • ES-Rapid Adrressable Protocol ©

Specification	
Operational Characteristics	
Voltage Supply	24 VDC (18-32 VDC)
Power Supply	<500uA on Standby/<5mA Alarm Current
Communication	Option 1: Addressable (ES-Rapid Protocol ©) Option 2: 4-20mA, Relay
Operational Characteristics	
Operating Temperature	-40C to +65C.
Built In Test	Automatic & Manual
Humidity Range	10-95% RH (Non condensing)
Relative Humidity	0 to +95% RH
Ingress Protection:	IP65/IP66
Indication:	• 3 color LED (normal, fault, alarm indication) • Optional Display
Sampling Frequency	Continuous
Control & Calibration	Non-Intrusive button interface
Sensor Type	• Infrared • Electrochemical • Photoionization
Drift	<2% per year
Repeatability	+/- 2%
Accuracy	+/- 2% Full Scale
Response Time	**Please refer to sensor specification sheet
Ex Marking	Ex ia IIC T4 Gb
Mechanical Characteristics	
Material	• Flame Retardant Polycarbonate • Aluminum • SS316
Wiring	12-22 AWG
Weight	• 125 g (ABS) • Approx 500 g (Aluminum) • Approx 1kg (SS316)
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Sensor Type & Concentration

Sensor Type	Gas	Gas formula	Detected component measuring range	Accuracy	Response time
Infrared	Methane	CH4	(0 - 100) % LEL	± 2% full Scale	T50 < 3 seconds T90 < 4 seconds
	Ethylene	C2H4			
	Hexane	C6H14			
	Butane	C4H10			
	Isobutane	C4H10			
	Ethane	C2H6			
	Cyclopentane	C5H10			
	Propylene	C3H6			
	Methanol	CH30H			
	Propane	C3H8			
	Pentane	C5H12			
	Heptane	C7H16			
	Octane	C8H18			

	Benzol	C_6H_6	(0-100) ppm (0 - 1 000) ppm (0 - 1 0000) ppm		
	Ethylene	C_2H_4	(0- 20) ppm (0- 2000) ppm		
	Methyl Mercaptan	CH_3SH	(0- 100) ppm Other ranges per request	± 2% full scale	T90 < 5 seconds
Electrochemical	Hydrogen	H_2	(O - 4) %val. (l 00% LEL) (0-100) ppm (0-1)%	± 2% full scale	T50 < 10 seconds T90 < 15 seconds
	Oxygen	02	(0- 30) % vol.	± 2% full scale	T50 < 10 seconds T90 < 15 seconds
	Carbon monoxide	CO	(0-100) pp (0-500) ppm (0 - 1 000) ppm	± 2% full scale	T50 < 10 seconds T90 < 15 seconds
	Hydrogen sulfide	H_2S	{0- 20) ppm (0 -50) ppm {0-100) ppm	± 2% full scale	T50 < 10 seconds T90 < 15 seconds
	Methanol	CH_3OH	{0- 100) ppm	± 2% full scale	T50 < 10 seconds T90 < 15 seconds
	Chlorine	Cl_2	{0- 20) ppm	± 2% full scale	T50 < 10 seconds T90 < 15 seconds

Certification