GQ-CE8900

TOXIC GAS DETECTOR

Prioritise Performance
Protecting Life, Safe Guarding Asset





INTRODUCTION

GQ-CE8900 is an intelligent toxic gas detector that adopts the smart sensor technology and features a safety function automatically identifies and determines the remaining usage life of the sensor.

GQ-CE8900 also features the detection of different gas concentrations and provides a real-time fault diagnosis to ensure safe and effective operations

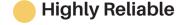
GQ-CE8900 can monitor toxic gases presence consistently and continuously in installation sites. It provides 4-20mA current output and three sets of relay contacts for Warning/Alarm/Fault. In addition, there are dual redundant Modbus and HART communication interfaces for data transfer to third party systems.

Easy to use

- One person adjustment-free calibration
- Sensor hot-swapping, easy replacement



- 4-20mA analog output
- Warning, Alarm and Fault Relay
- Redundant modbus and HART



- Event logging
- Real time fault diagnosis



Phone: (65) 6744-6268

Our Gas Detector deserve the best quality

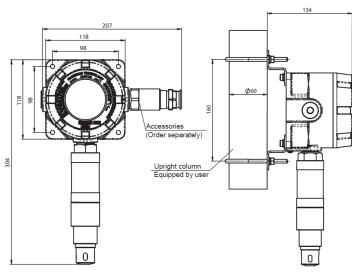


Figure 1: Outline and Mounting Dimensions

Electrical Specification				
Input Power	20-36VDC, 3.5W max			
Analog Output	0-22mA (500 Ω max. load)			
	<1 mA, Fault (1)			
	1.5mA Calibration, Setup mode (2)			
	4-20mA, Detection range			
	21.5mA, Over-range			
Baud Rate:	2400, 4800, 9600, or 19200BPS			
HART:	HART7, HART Device Descriptor Language			
(Optional)	available, AMS Aware			
Relay Ratings:	8A @ 250 VAC / 8A @ 30 VDC res. max			
(Optional)	Warning, Alarm, Fault			
Status Indicators:	Digital Display with 4 LED indicators for Warning, Alarm, Fault, Run			
EMC:	EN50081-2, EN50270			
Mechanical Specification				
Base Unit:	Housing: Aluminum alloy or 316 Stainless steel			
Interface Module::	Housing: Aluminum alloy or 316 Stainless steel			
Cable Entry:	3/4 " NPT			
Weight:	1.9Kg (Aluminum) / 4.8Kg (Stainless steel)			
Other Specification				
Classification:	ATEX / IECEx Ex db ib IIC T6 Gb IP66			
	(Tamb = -40 °C to + 70 °C)			
	SIL 2 Certified			
Warranty	Two years (electronics), One Year (Electrochemical cell)			

Technical Data of the GQ-CE8900 series

Product Specification							
Sensor Type:	Electrochemical Cell						
Measuring Gas	Measuring Range (with 100% Full Scale gas applied)	Response Time	Accuracy		Zero Drift		
Ammonia (NH3)	0-50, 0-100, 0-500 ppm	T90 < 30s	±2ppm or ±5% of reading whichever is	±5ppm or ±5% of reading, whichever is greater	< 5% per year		
Carbon Monoxide (CO)	0-100, 0-500 ppm	T90 < 30s		±3% of Full Scale (0-500ppm)			
Chlorine (CL2)	0-10, 0-20 ppm	T90 < 60s					
Ethylene Oxide (C2H4O)	0-20, 0-30 ppm	T90 < 120s					
Hydrogen Chloride (HCL)	0-20, 0-30 ppm	T90 < 70s					
Hydrogen Cyanide (HCN)	0-20, 0-30 ppm	T90 < 30s	greater for all				
Hydrogen Sulfide (H2S)	0-1000 ppm	T90 < 25s	gas except:	±2% of Full Scale (0-1000ppm)			
Hydrogen Sulfide (H2S)	0-30, 0-50, 0-100 ppm	T90 < 25s		±5% of Full Scale (0-20ppm)			
Oxygen (O2)	0-25% v/v	T90 < 15s		±1% v/v			
Ozone (O3)	0-1 ppm	T90 < 45s					
Sulfur Dioxide (SO2)	0-20 ppm	T90 < 20s					
* Note: Please consult Gasensor Technology for other gas that is not listed in the above table							

Environmental Specifications			
Operating Temperature Renge:	(For H2S): -40°C to +55°C, -30°C to +70°C (optional)		
	(For O2, C2H4O,CL2, SO2): -20°C to +50°C)		
	(For CO): -20°C to +50°C, -40°C to +50°C (optional)		
	(For NH3): -20°C to +40°C		
	* Note: Please consult Gasensor Technology for operating temperature of other sensors		
Storage Temperature Renge:	GQ-CE8900 (less Electrochemical Cell): -40°C to +85°C		
	(For H2S): -40°C to +50°C, -30°C to +70°C (optional)		
	Electrochemical Cell: 0°C to + 20°C; (Except For CO, H2, NH3, and O2: 16°C to + 27°C)		
Operating Hudimity Range:	15% to 90% RH, non-condensing		

(1) Under HART, AO value can be either 3.5mA or 1.25mA, depending on user selection (2) Under HART, AO value can be either 3.5mA or 1.5mA, depending on user selection Specifications subject to change without notice.

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