



FACTSHEET:

GT-CT8900 COMBUSTIBLE GAS DETECTOR

WHAT IS IT?

GT-CT8900 is an intelligent combustible gas detector, featuring a smart safety function that automatically identifies and determines the remaining usage life of the sensor.

It is sensitive to a wide parameter of gas concentrations and provides a real-time fault diagnosis to ensure safe and effective operation.

It monitors combustible 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 any third party system.



WHY DO YOU NEED IT?

Ease of Use

- One person adjustment-free calibration
- Multiple gas type support

Highly Reliable

- Event logging
- Real time fault diagnosis

Multiple Outputs

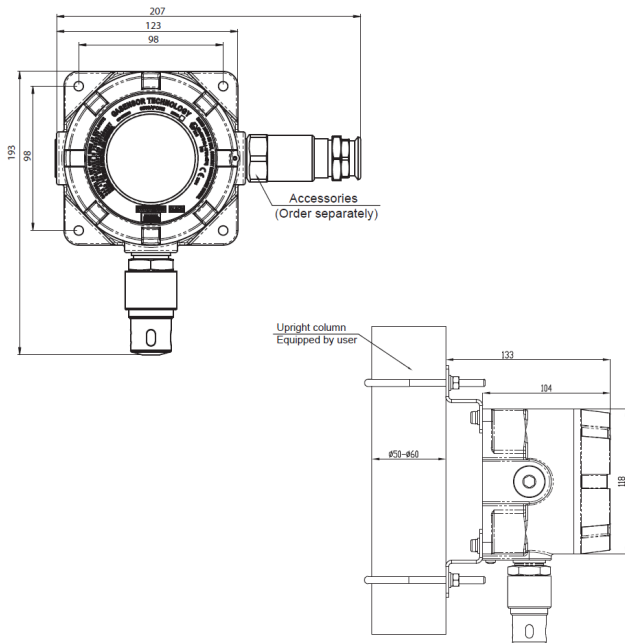
- 4-20mA analog output
- Warning, Alarm and Fault Relay
- Redundant modbus and HART



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GT-CT8900 COMBUSTIBLE GAS DETECTOR OUTLINE & MOUNTING DIMENSIONS



MECHANICAL SPECIFICATION

Housing	Aluminum alloy or 316 Stainless steel
Cable Entry	3/4" NPT

PRODUCT SPECIFICATIONS

Sensor Type	Continuous diffusion, low temperature catalytic bead
Sensor Life	3 to 5 years typical
Measuring Ranges	0 ~ 100% LEL
Accuracy	±3% LEL (≤ 50%LEL), ±5% LEL (> 50%LEL)
Response Time	T50 <10 s, T90 <18 s
Zero Drift	< 5% of full scale per year
Operating Mode	Calibration, gas check, setup
Warranty	Two years

ELECTRICAL SPECIFICATIONS

Input Power	24VDC nominal, 20-36VDC, 5W max
Analog Output	0-22mA (500 Ω max. load) 0 mA, Fault ¹ 1.5-4mA adjustable for Gas Check, 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 available
(Optional)	AMS Aware
Relay Ratings	8A @ 250 VAC / 8A @ 30 VDC res. max
(Optional)	Warning, Alarm, Fault
RS-485 Output	Dual redundant Modbus RTU,
(Optional)	suitable for linking up to 128 units or up to 247 units with repeaters
Status Indicators	Digital Display with 4 LED indicators for Warning, Alarm, Fault, Run
Cable Requirement	Three wire shielded cable Max. distance between GT-CT8900 and power source @ 24VDC nominal: 12AWG - 1600m Max. distance for analog output (500 Ohms max): 12AWG - 4200m

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range:	- 40°C to + 70°C / - 40°C to + 200°C (High temperature sensor optional)
Storage Temperature Range:	- 50°C to + 85°C
Operating Humidity Range:	5% to 100% RH, non-condensing

OTHER SPECIFICATIONS

Classification	ATEX: II 2G Ex db IIC T6 Gb, II 2G Ex db IIC T5 Gb, II 2D Ex tb IIIC T100 °C Db IECEx: Ex db IIC T6 Gb, Ex db IIC T5 Gb, Ex tb IIIC T100 °C Db (Tamb = -40 °C to + 70 °C) SIL 2 Certified
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1. AO value can be either 3.5mA for HART mode or 1.25mA for HART Compatible mode
 2. AO value can be either 3.5mA for HART mode or 1.5-4mA adjustable for HART Compatible mode
- Specifications subject to change without notice.



GASENSOR TECHNOLOGY
THE CHOICE FOR PERFORMANCE



DELTA FIRE AUSTRALASIA PTY LTD / PO Box 2149, Mansfield Queensland 4122 Australia

Free call : 1800 335 823 473 / Email: sales@deltafire.com.au / Web: www.deltafire.com.au

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COMBUSTIBLE GAS DETECTOR



ORDERING INFORMATION: GT-CT8900 COMBUSTIBLE GAS DETECTOR

	A	B	C	D	E
Customized CFG:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Standard CFG:	-1	-8	-1	-1	-1

A: Sensor Type	Description
1 std*	SST Sensor Body
2	AL Sensor Body
3	SST Sensor Body, Hi Temp
4	AL Sensor Body, Hi Temp
5-99	Other

B: Output	Description
1	4-20mA + Relay + Modbus + Hart
2	4-20mA + Relay + Modbus
3	4-20mA + Relay + Hart
4	4-20mA + Relay
5	4-20mA + Modbus +Hart
6	4-20mA + Modbus
7	4-20mA + Hart
8 std*	4-20mA
9	4-20mA + Relay + Modbus + Hart
10	4-20mA + Relay + Modbus
11	4-20mA + Relay + Hart
12	4-20mA + Relay
13	4-20mA + Modbus +Hart
14	4-20mA + Modbus
15	4-20mA + Hart
16	4-20mA
17-99	Other

(Source , Non-Isolated)

(Sink/Source, Isolated/Non-Isolated)

C: Relay State CFG	Description
1 std*	WARN dEn dLA, ALRM dEn dLA
2	WARN dEn dLA, ALRM En dLA
3	WARN En dLA, ALRM dEn dLA
4	WARN En dLA, ALRM En dLA
5	WARN dEn dLA, ALRM dEn LA
6	WARN dEn dLA, ALRM En LA
7	WARN En dLA, ALRM dEn LA
8	WARN En dLA, ALRM En LA
9-99	Other

D: Enclosure	Description
1 std*	AL
2	SST

E: Approvals	Description
1 std*	ATEX + IECEx
2-99	Other



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