

DETECTORS FLAMMABLE GAS

GD-A8

HELPING TO CREATE A SAFE AND CLEAN ENVIRONMENT
BY THE STATE OF THE ART TECHNOLOGIES

Economical Choice

Explosion Proof

Fast Response

Plug-in Sensor

Compact Size



WISE[®]

WISE CONTROL

Total Safety & Environmental Solutions

Let's create a safe environment

WISE CONTROL is an industry leader in detecting the potential dangers from Combustible and Toxic gases that pose a threat people and property.

We response to demands for safe and environment by developing and manufacturing quality detection instruments with advanced performance and reliability.

Series **is...**

- The basic component of the detector is the Pelister type sensor, based on the principle of Catalytic Oxidation.
- WISE control sensors detect all combustible gases and are designed to meet Explosive Proof specification Ex d IIC T6
- We can easily change the sensor unit by opening front cover (plug-in type)



Series **Feature**

- Easy Maintenance plug-in Sensor
- Suitable for use in a wide variety of gas detection applications.
- Explosion Proof Housing (Ex d IIC T6)
- Compact and Easy to Mount
- Fast Response
- Long term stability



Measuring Gases

Gases	Molecular Formular	Explosive Limit(Vol%)	Ignition Temperature(° C)
1.3-Butadiene	$\text{CH}_2=\text{CH}-\text{CH}=\text{CH}_2$	2.0 - 12	420
1-Butene	$\text{C}_2\text{H}_5\text{CH}=\text{CH}_2$	1.8 - 8.4	460
Acetylene	C_2H_2	2.5 - 100	305
Butane	C_4H_{10}	1.8 - 8.5	405
cis-2-Butene	$\text{CH}_3\text{CH}=\text{CHCH}_3$	1.7 - 9.7	325
Cyclopropane	C_3H_6	2.4 - 10.4	500
Ethane	C_2H_6	3.0 - 12.5	515
Ethyl Amine	$\text{C}_2\text{H}_5\text{NH}_2$	3.5 -	385
Ethylene	C_2H_4	2.7 -36	490
Ethylene Chloride	$\text{C}_2\text{H}_5\text{Cl}$	3.8 - 15.4	519
Ethylene Oxide	$(\text{CH}_2)\text{O}_2$	3.6 - 100	429
Hydrogen	H_2	4.0 - 75	400
Iso-butane	$(\text{CH}_3)_3\text{CH}$	1.8 - 8.4	460
Iso-buthylene	$(\text{CH}_2)_2\text{C}=\text{CH}_2$	1.8 - 9.7	323
Methane	CH_4	5.0 - 14.0	540
Methyl Chloride	CH_3Cl	7 - 17.4	632
Propane	C_3H_8	2.1 - 9.5	450
Propylene	C_3H_6	2.4 - 11.3	460
Trimethylamine	$(\text{CH}_3)_3\text{N}$	2.0 - 12	190
Vinyl Chloride	$\text{CH}_2=\text{CHCl}$	3.6 - 33	472

SeriesOptional Items

- Weather Protection Cover
- 2" Yoke Mounting Bracket
- Calibration Gas



Technical Characteristics

ITEMS	SPECIFICATIONS	REMARKS
Measuring Gas	Flammable Gas	-
Measuring Range	0 ~ 100% LEL	LEL: lower explosive limit
Detection Principle	Catalytic combustion	-
Sampling	Diffusion	-
Heating Current	290 mA	-
Output Signal	mV signal	-
Explosion Proof	Ex d IIC T6	-
Detector Housing	Aluminium Diecasting	-
Sensor Housing	SUS 316	-
Wiring Connection	PF 3/4"	PT, NPT available
Wire	Shielded 2.0 SQ.	-
	3 or 4 core	-
Response Time	Less than 10 secs at T90	Less than 5 secs at T50
Zero/Span Drift	+/-3% F.S. / month	-
Expected Life	24 to 48 month	-
Temperature Range	- 30 to 50° C	- 22 to 140° C
Humidity Range	Below 95% R.H.	-

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