DATASHEET 109101

Model DP100-A

Combustible Gas Detector with alarm HART,RS232 communication

Sensing and Internet of Things

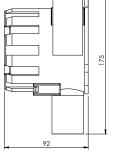
DP100-A Smart Combustible Gas Detector with alarm uses a catalytic combustion principle sensor, which converts the target combustible gas concentration on site into an instrument with 4-20mA output signal

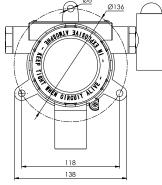
Features

- 4-20mA-3 wire, compatible with existing alarm control unit or DCS
- Flameproof body design, simple and easy installation and maintenance. Multi-parameter backlight LCD display: measuring range,
- gas reading, units, bar graph, system status etc.
- International standard plug-in sensor, Plug and Play.
- Programmable alarm operation value, low or high level alarm indication.
- Three-key operation for on-site configuration and maintenance.
- PC programmable software for online configuration.
- Automatic temperature compensation ensure the correct measurement.

Technical data

Technical data				
Performance Measurement range Sensor type	0~100% LEL Catalytic combustion	Gas type	Combustion Explosion range(VOL%)	Explosior grades
Accuracy		H ₂	4.0~75.6	3
y	±1 %FS(min.); ±3 %FS(typ.)	CH ₄	5.0~15.0	1
Operating temperature	-40 to 70 °C (According to gas sensor operating conditions)	C ₃ H ₈	2.1~9.5	1
Humidity	20% to 80% RH non-compensating	C ₄ H ₁₀	1.5~8.5	1
		C ₄ H ₁₀	1.8~8.4	1
Electrical @25°C		C ₅ H ₁₂	1.4~7.8	1
Output signal	4~20mA,HART	C_2H_4	2.7~34	2
Power supply	10.5~45VDC (Recommend 24VDC)	C_2H_6	2.0~11.7	1
Resolution	1μΑ	C_4H_8	1.7~9.0	1
Response time	<30s	C_2H_2	1.5~100	3
Measurement units	%LEL,%VOL, mA, %	$C_6H_5CH_3$	1.2~7.0	1
		C ₆ H ₅₍ CH ₃) ₂	1.0~7.6	1
Physical Specifications		CH₃OH	5.5~44	1
		C₂H₅OH	3.5~19	1
Housing	Cast aluminum	(CH ₃) ₂ CO	2.5~13	1
Protection	IP65	$CH_3CO_2CH_5$	1.8~11.5	1
The listed specifications and dimensions are subject to change without prior notice		$CH_3COO_2CH_5$	2.1~11.5	1
		CH ₃ COO(CH ₃) ₂ CH ₃	1.2~7.5	1
		CH ₃ (CH ₂)4CH ₃	5.0~	2
Dimensions (All dimensions in mm)		LPG	2.0~12.0	1
	Ø136	Gasoline	1.0~7.0	1
		kerosene	0.7~	1
	H AND AND H	C ₆ H ₁₄	1.2~6.9	1





C2114	2.7 34	2	
C_2H_6	2.0~11.7	1	
C ₄ H ₈	1.7~9.0	1	
C_2H_2	1.5~100	3	
$C_6H_5CH_3$	1.2~7.0	1	
C ₆ H ₅₍ CH ₃) ₂	1.0~7.6	1	
CH₃OH	5.5~44	1	
C₂H₅OH	3.5~19	1	
(CH ₃) ₂ CO	2.5~13	1	
$CH_3CO_2CH_5$	1.8~11.5	1	
CH ₃ COO ₂ CH ₅	2.1~11.5	1	
CH ₃ COO(CH ₃) ₂ CH ₃	1.2~7.5	1	
CH ₃ (CH ₂)4CH ₃	5.0~	2	
LPG	2.0~12.0	1	
Gasoline	1.0~7.0	1	
kerosene	0.7~	1	
C ₆ H ₁₄	1.2~6.9	1	
CH ₂ =CHCH=CH ₂	1.1~12.5	2	
CH₃CHO	4.0~57	1	
CH ₂ =CHCL	3.8~29.3	1	
CO	12.5~74	1	
NH₃	15~28	1	
H ₂ S	4.3~45.5	2	
SO ₂			
C_6H_6	1.2~8.0	1	
C ₂ =CHCN	2.8~28	1	

Ordering code

Model	Gas type	Display	Accessory	Label
DP100-A	See Gas type table	1 LCD	N Audible alarm	N Neutral packing
		2 LED	C Relay output	C Custom label
		3 No display		S Standard



Materontek