

Model DP100

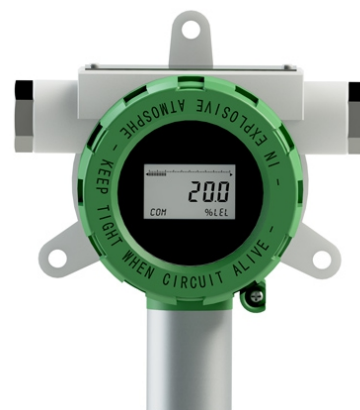
Combustible Gas Detector
HART, RS232 communication

Materontek
Sensing and Internet of Things

DP100 Smart Combustible Gas Detector 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

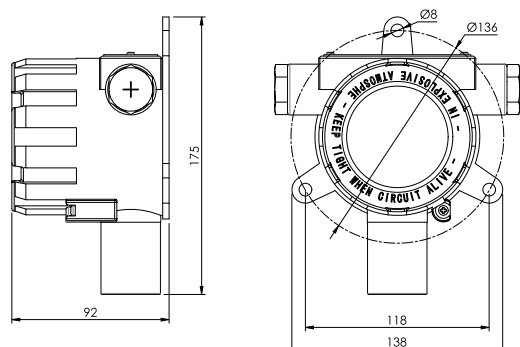
Performance	
Measurement range	0~100% LEL
Sensor type	Catalytic combustion
Accuracy	±1 %FS(min.); ±3 %FS(typ.)
Operating temperature	-40 to 70 °C (According to gas sensor operating conditions)
Humidity	20% to 80% RH non-compensating

Electrical @25°C	
Output signal	4~20mA, HART
Power supply	10.5~45VDC (Recommend 24VDC)
Resolution	1μA
Response time	<30s
Measurement units	%LEL, %VOL, mA, %

Physical Specifications	
Housing	Cast aluminum
Protection	IP65

The listed specifications and dimensions are subject to change without prior notice

Dimensions (All dimensions in mm)



Ordering code

Model	Gas type	Display	Label
DP100	See Gas type table	1 LCD	N Neutral packing
		2 LED	C Custom label
		3 No display	S Standard

Gas type	Combustion Explosion range(VOL%)	Explosion grades
H ₂	4.0~75.6	3
CH ₄	5.0~15.0	1
C ₃ H ₈	2.1~9.5	1
C ₄ H ₁₀	1.5~8.5	1
C ₄ H ₁₀	1.8~8.4	1
C ₅ H ₁₂	1.4~7.8	1
C ₂ H ₄	2.7~34	2
C ₂ H ₆	2.0~11.7	1
C ₄ H ₈	1.7~9.0	1
C ₂ H ₂	1.5~100	3
C ₆ H ₅ CH ₃	1.2~7.0	1
C ₆ H ₅ (CH ₃) ₂	1.0~7.6	1
CH ₃ OH	5.5~44	1
C ₂ H ₅ OH	3.5~19	1
(CH ₃) ₂ CO	2.5~13	1
CH ₃ CO ₂ CH ₃	1.8~11.5	1
CH ₃ COO ₂ CH ₃	2.1~11.5	1
CH ₃ COO(CH ₃) ₂ CH ₃	1.2~7.5	1
CH ₃ (CH ₂) ₄ CH 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
CH ₃ CHO	4.0~57	1
CH ₂ =CHCL	3.8~29.3	1
CO	12.5~74	1
NH ₃	15~28	1
H ₂ S	4.3~45.5	2
SO ₂	--	--
C ₆ H ₆	1.2~8.0	1
C ₂ =CHCN	2.8~28	1