

4 Channel Smart Digital-Process Gas Detector

DA-8000

(O₂,CO₂,CH₄,H₂S)

Auto-Suction Type



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Product Overview

DA-8000 is a device that can measure gas components such as O₂, CO₂, CH₄, and H₂S using optical, NDIR, and electrochemical sensors. Continuous gas measurement is possible using a BLDC motor.

Application areas include measurement of O₂, CO₂, CH₄, and H₂S in biogas and landfill gas.

Gas Spec Sheet

1. O₂

Category	Detail
Measuring gas	Oxygen (O ₂)
Measurement method	Optical
Detection range	0.00 ~ 25.00 %
Output (Channel 1)	4~20mA, 2 step-Relay contact(Alarm)

2. CO₂

Category	Detail
Measuring gas	Carbon dioxide (CO ₂)
Measurement method	NDIR
Detection range	0.00 ~ 100.00 %VOL
Output (Channel 2)	4~20mA, 2 step-Relay contact(Alarm)

3. CH₄

Category	Detail
Measuring gas	Methane (CH ₄)
Measurement method	NDIR
Detection range	0.00 ~ 100.00 %VOL
Output (Channel 3)	4~20mA, 2 step-Relay contact(Alarm)

4. H₂S

Category	Detail
Measuring gas	Hydrogen sulfide (H ₂ S)
Measurement method	Electrochemical
Detection range	0.00 ~ 50.00 PPM, 0.00 ~ 500.00 PPM
Output (Channel 4)	4~20mA, 2 step-Relay contact(Alarm)

Product Specifications

구 분	내 용
Measuring gas	O ₂ ,CO ₂ ,CH ₄ ,H ₂ S
Measurement principle	Optical, NDIR, electrochemical
Measurement range	O ₂ (0.00~25.00%),CO ₂ ,CH ₄ (0.00 ~ 100.00%) , H ₂ S(0.00 ~ 50.00PPM, 0.00 ~ 500.00PPM)
Response time	T90 (within 15 seconds)
Detection method	Suction Type
Input power	DC 20~28V(max 24W)
Suction flow rate	0.2L/min ~ 2.0L/min
Accuracy	≤±0.5% / FULL SCALE
Display	3.5" TFT(320 x 480)
Analog output signal	Channel 1,2,3,4(4~20mA DC/F.S)
Alarm display	Low alarm - AL1 (RED LED)
	High alarm - AL2 (RED LED)
Alarm output	2 step-Relay contact(Alarm)
Set alarm value	User-defined settings
Alarm delay time	0~99 seconds user-defined setting
Alarm release method	Manual and automatic reversion
Operating temperature	-10℃ ~ 60℃
Operating humidity	5 ~ 95%RH(Non-Condensing)
Installation type	Wall Mounting Type
Weight	21kg
Wire conduit	1/2" PF
External communication method	RS-485 Communication
Explosion proof approval	Exd IIB +H2 T6

Product Drawing

