

1 Point type Gas Detection & Alarm System

NV-100 series

Small and compact, yet Multi-functions

Features

Highly reliable sensors - more than 40 years of experience in sensor manufacturing

Space saved indicator / alarm unit design

Easy to read bar-graphic LCD indicator with backlight.

Protection for false alarm (with alarm delay, zero suppression function)

Easy to operate multi-maintenance functions (Auto-zero, simple span adjustment, etc.)

With 4 relays for direct control of external device, 4-20mA analog output.

With self-diagnostic function

With backup power source (Option)



Combustible gases



Toxic gases
Semiconductor manufacturing gases



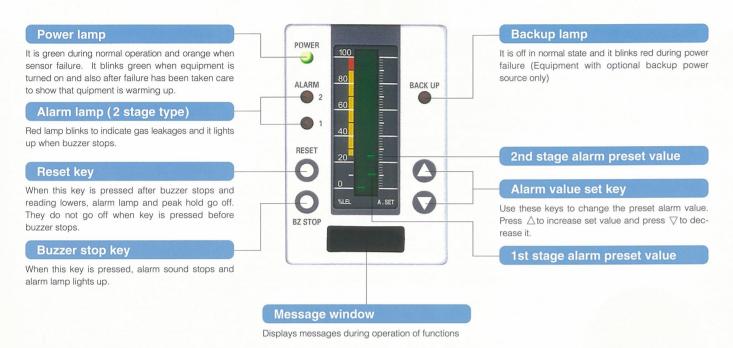


Over 40 years of experience in sensor manufacturing

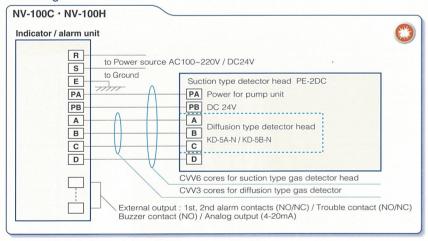
Easy to read & operate multi-functional Indicator / alarm unit

Gas concentration indicating bar-graph meter

This LCD bar-graph meter with backlight indicates gas concentration and preset alarm points. Peak value continues to blink even after reading value goes down after alarm.



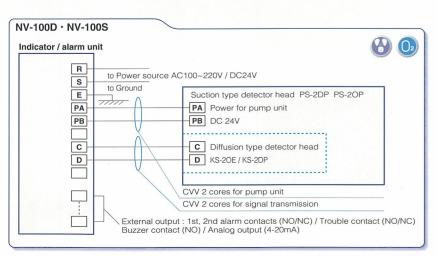
Wiring



Indicator / Alarm unit

When gas concentration around the gas detector head becomes high and reading of the gas concentration indicating bar-graph exceeds the first preset alarm value, the first alarm lamp blinks and alarm sound (four short beeps) is heard.

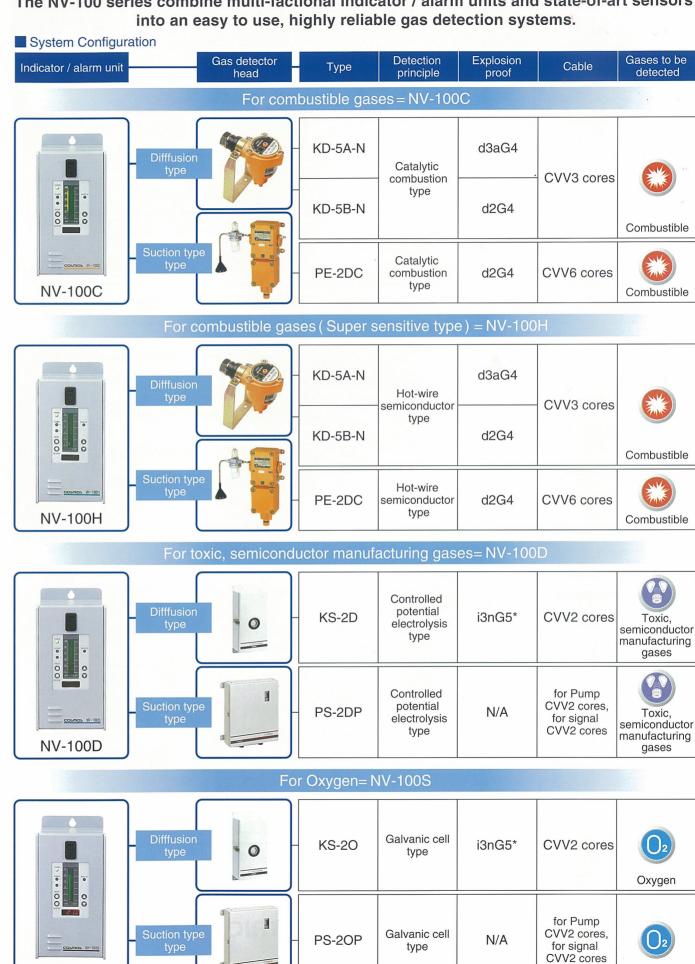
When the reading exceeds the second preset alarm value, the second alarm lamp blinks. At the same time, the peak hold value blinks on the LCD bar-graph metar.





NV-100S

The NV-100 series combine multi-factional Indicator / alarm units and state-of-art sensors



Oxygen * with zener barrier

NV-100 c/H/D/s

Specification for indicator / alarm unit

Model	NV-100C	NV-100H	NV-100D	NV-100S	
Detection principle	Catalytic combustion type	Hot-wire semiconductor type	Controlled potential electrolysis type	Galvanic cell type	
Gases to be detected	Combustible gases (LPG, Methane, etc.)		Toxic gases, Semiconductor manufacturing gases	Oxygen (for deficiency, for leakage)	
Measuring range	0~100%LEL	As per specification	As per specification	For deficiency : 0~25%vol For leakage : 0~50%vol	
Indicator unit	LCD bar-graph meter with backlight				
Alarm accuracy	Within ±25% of the preset alarm value		Within ±30% of the preset alarm value	Within ±1%vol of the preset alarm value	
Operating temperature	0 to 40℃				
Power source	AC100-240V 50/60Hz (standard) / DC24V (Option.)				
Power consumption	Diffusion type: 12VA / 17VA (with a backup power source) / Suction type: 4VA per unit to be add.				
Alarm indication	First alarm: First Alarm lamp blinks red and a buzzer is heard. Second alarm: First and second Alarm lamps blink red and a buzzer is heard.				
Trouble indication	Power lamp rights up orange and the content of the failure is indicated.				
External output	External alarm output - 1st alarm : No voltage 1c contact, 2nd alarm : No voltage 1c contact, Trouble alarm : No voltage 1c contact, Buzzer : No voltage 1a contact (Contact capacity : AC100V 2A load resistance) Analog output : 0~20mA				
External dimensions	Without backup power source : W113 x H204 x D71.5mm approx. 1.5kg With backup power source : W113 x H234 x D110mm approx. 3.0kg				

Specifications for Gas Detector Head for Combustible Gases

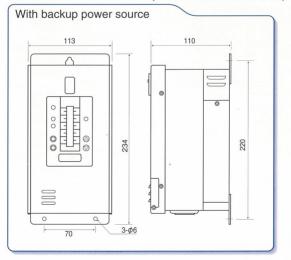
Model	KD-5A-N	KD-5B-N	PE-2DC		
Sampling method	Diffusion type		Suction type		
Explosion proof construction	d3aG4	d2G4			
Operating temperature	-10℃~60℃		-10℃~40℃		
Applicable conduit	G22				
Cable entry	Pressure tight packing type				
Max. cable length	Less than 600m when used 1.25mm2 cable (Resistance less than 10Ω)				
Weight	approx. 1.2kg	approx. 1.0kg	approx. 6.2kg		

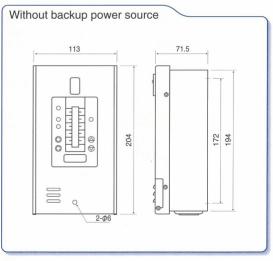


Specifications for Gas Detector Head for Toxic Gases, Oxygen

Model	KS-2D	PS-2DP	KS-20	PS-2OP	
Sampling method	Diffusion type	Suction type	Diffusion type	Suction type	
Explosion proof construction	Intrinsically safe construction with zener barrier (Option)				
Operating temperature	0 ℃~40℃ (30%~80%RH)				
Applicable conduit	G16				
Cable entry	Box connector type				
Max. cable length	Less than 600m when used 1.25mm2 cable (Resistance less than 10 Ω)				
Weight	approx. 1.5kg	approx. 5.0kg	approx. 1.0kg	approx. 5.0kg	

External dimenstions (Indicator / alarm unit)





CAUTION



- Please read the instruction manual before using to ensure safe operation
- · Be sure to use only the power source and voltage indicated.



NEW COSMOS ELECTRIC CO., LTD.

Head Office: 2-5-4, Mitsuya-naka, Yodogawa-ku, Osaka 532-0036, Japan

Tel: +81-6-6309-1505 Fax: +81-6-6308-8129

Tokyo Office: Towa-Hamamatsucho Bldg., 2-6-2, Hamamatsucho, Minato-ku, Tokyo 105-0013, Japan

Tel: +81-3-5403-2715 Fax: +81-3-5403-2710