

Inline Oxygen Monitor

PNA Series

Materials compliant with the Food Sanitation Act

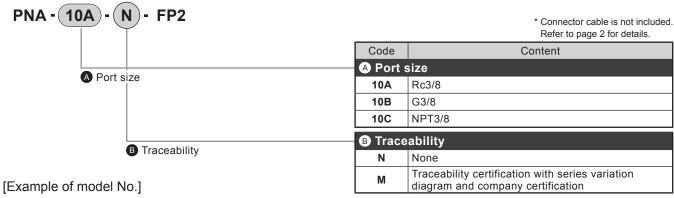
Purging not required due to the inline pressure resistant structure A modular structure that can be connected to the Nitrogen Extraction Unit NS Series and F.R. unit

Specifications

Descriptions	Content		
Measuring method	Zirconia solid electrolyte method		
Sampling method	Natural diffusion method		
Display	Switchable oxygen concentration display and nitrogen concentration display (100-oxygen concentration)		
Working fluid	Nitrogen-rich compressed air		
Working pressure MPa	0 to 1.0		
Proof pressure MPa	1.5		
Ambient temperature and humidity	0 to 50°C, 80% RH or less (no condensation)		
Fluid temperature	0 to 50°C (no condensation)		
Storage ambient temperature, humidity	−10 to 60°C, 80% RH or less (no condensation)		
Max. flow rate L/min (ANR)	500 *1		
Measured range %O ₂	0.00 to 25.00		
Accuracy *2	For 0.00% to 1.00% $O_2 \pm 0.05\%$ O_2 For 1.01% to 2.50% $O_2 \pm 0.10\%$ O_2 *Note:There is a $\pm 0.01\%$ O_2 read accuracy For 2.51% to 10.00% $O_2 \pm 0.5\%$ O_2 that will be reflected in the display.		
Response time	90% response within 20 s *3		
Analog output	4 to 20 mA current output (for 0.00 to 25.00% O2)		
Load resistance of analog output	0 to 400 Ω		
Analog output accuracy	0.064 mA/0.1% O ₂		
Switch output	ut Set value and detection element error: 1 (relay output)		
Switch output capacity	24 VDC, 1 A		
Power supply voltage	24 VDC ±15% (with AC adapter: 100 to 240 VAC)		
Power consumption	10 W or less		
Degree of protection	IP65 or equivalent		
EMC Directive	EN61326-1		
Weight kg	1.6		
Varming up time Approx. 5 min after turning the power ON *4			

^{*1} Contact CKD when 500 L/min (ANR) is exceeded.

How to order main body



PNA-10A-M-FP2

A Port size : Rc3/8

B Traceability: Traceability certification with series

variation diagram and company

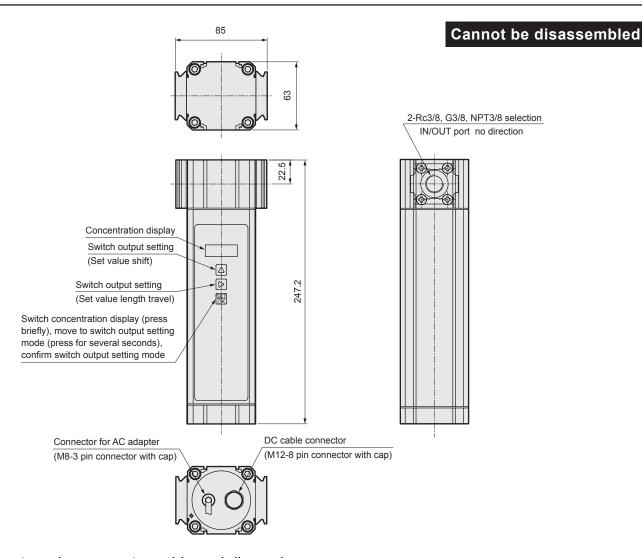
certification

^{*2} Value referring to the dry gas made up of oxygen and nitrogen.

^{*3} The response times are for flow rates of 5 L/min (ANR) or more.

^{*4} While warming up, analog output and switch output cannot be output.





How to order connector cable and dimensions

* Connector cable is sold separately from the body.

DC cable

Use when driving with a DC power supply and when using analog output or switch output.

PNA-1D	1000					
PNA-3D	3000					
PNA-5D	5000					
7 5 4						

Model No. L dimensions

No.	Cable color	Content	
1	White	Power supply +	
2	Brown	Power supply -	
3	Green	Analog output +	
4	Yellow	Analog output -	
5	Gray	Contact output (relay output)	
6	Pink		
7	Blue	-	
8	_	-	



Use when driving with an AC power supply.

Model No.	Content		
PNA-A	AC adapter single unit A		
PNA-AG	AC adapter single unit + conversion plug set		
	* Global power supply conversion plugs B, C, O and BF included.		

Plug shape

B type	C type	D type	BF type
0	°		

