Inline oxygen monitor

PNA-FP2 Series

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





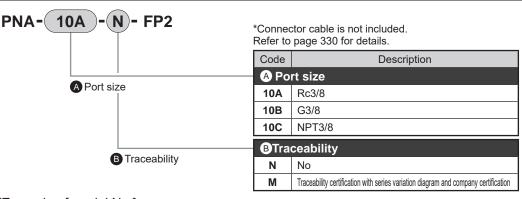


Specifications

Specifications	5				
Item		Description			
Measuring method		Zirconia solid electrolyte method			
Sampling method		Natural diffusion			
Display		Can be switched between 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, 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	%O2	0.00 to 25.00			
Accuracy		±0.05%O ₂ ±1digit	(For 0.00 to 1.00%O ₂)		
	(+0)	±0.10%O2±1digit	(For 1.01 to 2.50%O ₂)		
	(*2)	±0.5%O2±1digit	(For 2.51 to 10.00%O ₂)		
		±1.0%O2±1digit	(For 10.01 to 25.00%O ₂)		
Response time		90% response within 20 seconds (*3)			
Analog output		4 to 20mA current output (For 0.00 to 25.00%O2)			
Load resistance of a	analog output	0 to 400 Ω			
Analog output accuracy		0.064mA/0.1%O ₂			
Switch output		Set value and detection element abnormality: 1 (relay output)			
Switch output capacity		24 VDC, 1A			
Power supply voltage		24 VDC ±15% (when AC adapter is used: 100 to 240 VAC)			
Power consumption		10 W or less			
Degree of protection		IP 65 or equiv.			
EMC Directive		EN61326-1			
Weight kg		1.6			
Warmup time		Approx. 5 minutes after power ON (*4)			

- *1: If exceeding 500L/min (ANR), contact CKD.
- *2: Value in dry gas composed of oxygen and nitrogen.
- *3: The response time is a value at a flow rate of 5L/min (ANR) and over.

How to order main body



[Example of model No.]

PNA-10A-M-FP2

- A Port size: Rc3/8
- B Traceability: With traceability certification with series variation diagram and company certification

Assistive device

Pneumatic valves

F.R.L./Auxiliary Components Electronic Component components Vacuum

components

Fluid control

components

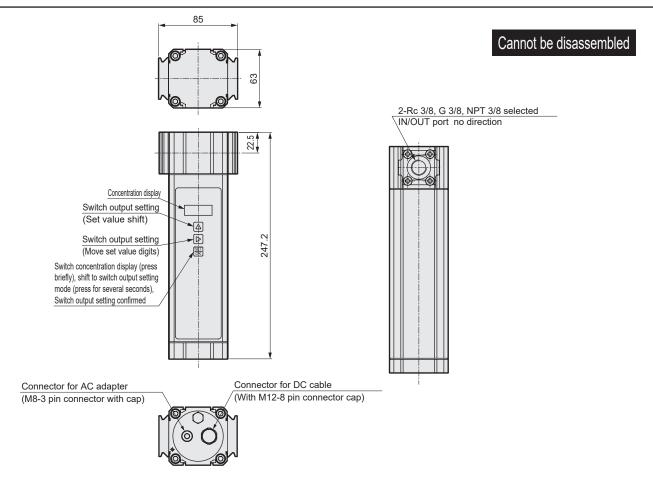
bacteria-removing filter Anti-bacterial/

components Vacuum

Fluid control

^{*4:} Analog output and switch output are not output during warming-up.

Dimensions



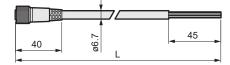
How to order connector cable and dimensions

*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.

Model No.	Dimension L	No.	Cable color	Description	
PNA-1D 1000		1	White	Power supply +	
PNA-3D 3000		2	Brown	Power supply -	
PNA-5D	5000	3	Green	Analog output+	
6	5 ,	4	Yellow	Analog output -	
7	/\^	5	Gray	Contact output (relay	
X.	**\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	6	Pink	output)	
8	3	7	Blue	-	
1	2	8	-	-	



AC adapter Use when driving with an AC power supply.

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

· Plug shape

B type	C type	O type	BF type

