

AIR PRESSURE SENSOR AND TRANSMITTER FOR HVAC SYSTEM

เซนเซอร์วัดความดันอากาศสำหรับงานระบบระบายอากาศ  


New



คุณสมบัติ

- ออกแบบมาเพื่องานอนุรักษ์พลังงานในอาคาร
- ย่านการวัด Vacuum -100 ถึง 100 kPa
- ย่านการวัด Pressure 0 ถึง 1000 kPa
- มีหน้าจอแสดงผล และ Output NPN
- สามารถส่งสัญญาณ 1..5VDC, 4..20mA.

Specifications

Pressure type		Gauge pressure							
		Vacuum pressure type	Positive pressure type		Compound pressure type				
Model (★1)	Analog voltage output	PSAN-(L)V01C(P)V	PSAN-(L)01C(P)V	PSAN-(L)1C(P)V	PSAN-(L)C01C(P)V				
	Analog current output	PSAN-(L)V01C(P)A	PSAN-(L)01C(P)A	PSAN-(L)1C(P)A	PSAN-(L)C01C(P)A				
	Hold/Auto shift input	PSAN-(L)V01C(P)H	PSAN-(L)01C(P)H	PSAN-(L)1C(P)H	PSAN-(L)C01C(P)H				
Rated pressure range		0.0 to -101.3kPa	0.0 to 100.0kPa	0 to 1,000kPa	-101.3kPa to 100.0kPa				
Display pressure range		5.0 to -101.3kPa	-5.0 to 110.0kPa	-50 to 1,100kPa	-101.3kPa to 110.0kPa				
Min. display unit (internal resolution)		0.1kPa (1/2,000)	0.1kPa (1/2,000)	1kPa (1/2,000)	0.1kPa (1/2,000)				
Max. pressure range		2 times of rated pressure		1.5 times of rated pressure	2 times of rated pressure				
Applicable fluid		<ul style="list-style-type: none"> • Pneumatic type ⇨ Air, Non-corrosive gas • Fluid type ⇨ Air, Non-corrosive gas and fluid that will not corrode SUS316L 							
Power supply		12V-24VDC ±10% (Ripple P-P:Max. 10%)							
Current consumption		Max. 50mA (Analog Current Output type Max 75mA)							
Control output		<ul style="list-style-type: none"> • NPN open collector output ⇨ Max. sink current:Max. 100mA, Applied voltage:Max. 30VDC, Residual voltage:Max. 1V • PNP open collector output ⇨ Max. source current:Max. 100mA, Residual voltage:Max. 2V 							
Hysteresis (★2)		Min. display range							
Repeat error		±0.2%F.S ± Min. display range							
Response time		Selectable 2.5ms, 5ms, 100ms, 500ms, 1000ms							
Short circuit protection		Built-in							
Analog output (★3)	Voltage output	<ul style="list-style-type: none"> • Output voltage:1-5VDC ±2% F.S • Linear:Within ±1% F.S • Output impedance: 1kΩ • Zero point:Within 1VDC ±2% F.S • Span:Within 4VDC ±2% F.S • Resolution:1/2,000 (equal to display resolution) • Response Time:50ms 							
	Current output	<ul style="list-style-type: none"> • Output current:4-20mA ±2% F.S • Linear:Within ±1% F.S • Zero-point:Within 4mA ±2% F.S • Span:Within 16mA ±2% F.S • Resolution:1/2,000 (equal to display resolution) • Response Time:70ms 							
Display method		4 digit LED 7segment							
Min. Display interval (★4)	resolution	1000	2000	1000	2000	1000	2000	1000	2000
	pressure unit	kPa	—	0.1	—	1	—	—	0.1
		kgf/cm ²	0.001	—	0.001	—	0.01	—	0.001
		bar	0.001	—	0.001	—	0.01	—	0.001
		psi	—	0.01	—	0.01	—	0.1	0.02
		mmHg	—	0.4	—	—	—	—	0.8
		inHg	—	0.02	—	—	—	—	0.03
	mmH ₂ O	0.1	—	—	—	—	—	0.1	
Characteristic of control output and display temp.		Max. ±0.5% F.S. of display pressure at 25°C within 0°C to 50°C *Max. ±1% F.S. of display pressure at 25°C under -10°C							
Analog output temp. characteristic		Max. ±2% F.S. of display pressure at 25°C within 0°C to 50°C							
Dielectric strength		1000VAC 50/60Hz for 1 minute							
Insulation resistance		Min. 50MΩ (at 500VDC megger)							
Ambient temperature		-10°C to +50°C (at non-dew status)							
Storage temperature		-20°C to +60°C (at non-freezing status)							
Ambient humidity		30 to 80%RH							
Storage humidity		30 to 80%RH							
Vibration		1.5mm amplitude at frequency of 10 to 55Hz in each of X, Y, Z direction for 2 hours							
Protection		IP40 (IEC specification)							
Material		<ul style="list-style-type: none"> • Pneumatic type ⇨ Front case : PC, Rear case : PC, Pressure port : Nickel Plated Brass • Fluid type ⇨ Front case : PC, Rear case : PA6, Pressure port : SUS316L 							
Wire		Connector cable (φ 4, 5P, Length: 2m, AWG 24, Insulator diameter: φ 1)							
Approval									
Unit weight		<ul style="list-style-type: none"> • Pneumatic type ⇨ Approx. 84g • Fluid type ⇨ Approx. 57.5g 							