

Atmospheric Pirani Gauge Combo [SW1&ISG1 Package]

This is a wide range pirani gauge which measures from atmospheric pressure to 5×10^{-2} Pa (3.75×10⁻⁴ Torr, 5×10^{-4} mbar) Platinum wire is used for filaments, therefore, the filament will function even at atmospheric pressure.







ISG1 SW1-1/SWP-16 SW1-1/SWP-R1/8

Features

- ➤ Wide-range Measurement
 Measures from atmospheric pressure to 5×10⁻² Pa (3.75×10⁻⁴ Torr, 5×10⁻⁴ mbar)
- ➤ Power Supply Voltage
 Powered with 24VDC or 100VAC to 240VAC input
- Shock Resistant Design is highly resistant to shock
- ➤ Filament Material: platinum (Pt)
 Corrosion-resistant platinum is used as the filament material
- ➤ High Visibility LEDs Used for Error Display
- One-touch Adjustment Atmospheric adjustment and the zero point adjustment can be done with one-touch
- Maintainability Sensor head can be replaced easily
- ➤ Measured Value Output Signal Pressure is 0 to 10V Log output
- Control Output Signal 3 set point output

- Serial Communication Spec RS485 communication (ISG1)
- Display Unit With visble LED
- Certification
 Conforms with CE

Applications

- Process control in low vacuum range of vacuum equipment such as that used for semiconductor, optics and Photovoltaic field, FPD, electronic parts manufacturing
- Process control in the low vacuum range for industrial equipment such as vacuum furnaces, etc.
- Process control in low pressure range for vacuum systems with multiple process chambers such as in-line sputtering and single wafer processing equipment
- For pumping unit (system) which it has a vibration and/or shach in the manufacture process

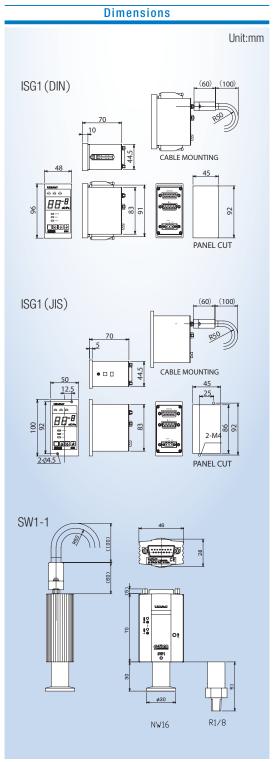




Atmospheric Pirani Gauge Combo [SW1&ISG1 Package]

Chacifications

Specifications			
Model	SW1&ISG1 package (DIN type)	SW1&ISG1 package (JIS type)	
Specifications	DIN standard	JIS standard	
Measurable pressure range	5.0×10^{-2} to $1.0 \times 10^{+5}$ Pa (3.75×10 ⁻⁴ to 760 Torr, 5.0×10^{-4} to 1013 mbar)		
Unit of pressure	Pa		
Connectable sensor	1 pcs		
Pressure indication	Significand: 2 digit, Exponent: 1 digit digital □. □×10 □ (LED)		
Update time	200ms		
Sampling time 70ms	70ms running average in 5 times		
Accuracy*	1×10 ⁻¹ to 1×10 ⁺⁴ Pa:		
,	7.5×10 ⁻⁴ to 75 Torr :	±12% ±1 digit	
	1×10 ⁻³ to 100 mbar :	Ç	
	5.0×10 ⁻² to 1.0×10 ⁻¹ Pa, 1×10 ⁺⁴ to 1×10 ⁺⁵ Pa :		
	3.75×10 ⁻⁴ to 7.5×10 ⁻⁴ Torr, 75 to 760 Torr :	±22% ±1 digit	
	5×10^{-4} to 1×10^{-3} mbar, 100 to 1013 mbar :		
Repeatability	1×10 ⁻¹ to 1×10 ⁺⁴ Pa :		
	7.5×10 ⁻⁴ to 75 Torr :	±2% ±1 digit	
	1×10 ⁻³ to 100 mbar :		
Analog output	DC 0V-10V, LOG output		
Control input signal			
Control input signal	Filament lighting signal, Atmosphere pressure adjustment etc.		
Control output signal	Open collector output, Negative logic [rating: 30Vmax, 50mAmax, 70mW]		
oontroi output signai	Error signal		
	Set point 1, 2, 3		
Serial Communication Spec	•		
Power supply voltage			
	10 to 40°C (50 to 104°F)		
	15 to 80% (not condensing)		
Weight	Display unit: 250g		
	Sensor unit:150g (with SWP-16)	50 100 70	
Dimension (Power supply) W×D×H	Display unit: 48mm×96mm×70 mm	50mm×100mm×70 mm	
	Sensor unit: 70mm×46mm×28 mm		
Standard parts	Sensor unit SW1-1: 1pc		
	Display unit ISG1: 1pc		
	Sensor head SWP-16 (NW16) or SWP-R1/8(R1/8): 1pc		
	Sensor head cable: Choose it from 2, 5, 10, 15, 20, 25 or 30m: 1pc		
	AC power adapter: PW-060A-01Y240 (G)		
	Power supply connect to PHOENIX: MSTI	B 2, 5/3-STF-5, 08: 1pc	
	DIN panel fixation joints: 2pc	_	
	Instruction manual CD: 1pc		
Option	Inspection result data sheet, General caribration test reprt, JCSS caribration certificate		
	Input / output connector D-sub 15 socke	et (M2.6mm screw)	
Applicable standard	CE		



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^{*} The value is accurate after atmospheric pressure adjustment and zero point adjustment.