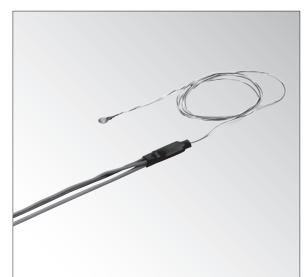
PSN-AB Miniature Pressure Sensor



Ultra-small sized pressure transducers with strong fluoroplastic coated cable

•The bridge adapter is provided.

PSM-AB series are the smallest pressure sensors in Kyowa's products designed based on integration of sensor element and diaphragm. This sensor adopts quarterbridge 3-wire system and configures a full bridge in a bridge adapter. In addition, this sensor is installed by adhesives. Developed mainly for gas pressure measurement, PSM-AB series allow denser points than conventional transducers to be measured.

- (Note 1) Copper alloy is used for sensing element. Avoid measuring corrosive liquid or gas.
- (Note 2) The mainframe has been assembled using an epoxy adhesive. Do not therefore use the transducer to measure organic solvent. (e.g. Toluene, ketone and others)

Specifications

Performance						
Rated Capacity	See table below.					
Nonlinearity	Within ±1% RO					
Hysteresis	Within ±1% RO					
Rated Output	tted Output PSM-1KAB: 0.275 mV/V (550 ×10 ⁻⁶ strain) ±25%					
	PSM-2KAB: 0.38 mV/V (760 ×10 ⁻⁶ strain) ±25%					
Note: Rated output is sorted to one of the classes divided by every 0.007 mV/V						
	ut value. Since the rated output stated in the Test Data Sheet					
is the center value	of the class, it may have a maximum error of ± 0.0035 mV/V.					
Environmenta	I Characteristics					
Safe Temperatu						
Compensated T						
Temperature Ef						
	(PSM-1KAB: Within ±1% RO/°C)					
Temperature Ef	fect on Output Within ±0.3%/°C					
Electrical Char	acteristics					
Safe Excitation	5 V AC or DC					
Recommended	Excitation 2 V AC or DC					
Input Resistance	e 350 Ω±1%					
Output Resistan						
	ble Sensor side: 3-conductor fluoroplastic coated cable,					
	diameter by 50 cm long					
Measuring instrument side: 4-conductor vinyl						
	able, 1.3 mm diameter by 15 cm long, bared at the tip					
(Shield w	vire is not connected to the case.)					

Kyowa's smallest pressure sensors

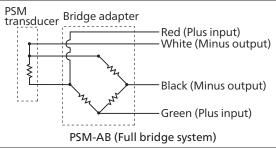
100 & 200 kPa

Mechanical Properties

Weight Approx. 0.5 g (Including cable but not bridge add		
Degree of Protection	egree of Protection IP61 (IEC 60529) (Excluding bridge adapters)	
Dedicated Adhesive	RC-19 (Request the RC-19 when ordering the	
t	transducer. Free of charge.)	

Models	Rated Capacity	Natural Frequencies	Remarks
PSM-1KAB	100 kPa	≈ 3 kHz	Bridge adapter
PSM-2KAB	200 kPa	≈ 3 kHz	Attached standard

Circuit Diagram



Dimensions

