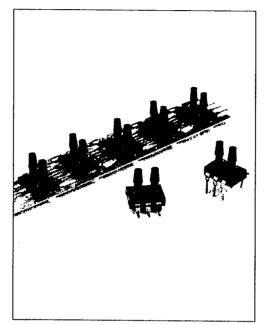
SMALL PLASTIC PACKAGE SOLID STATE SENSOR **ABSOLUTE OR DIFFERENTIAL PRESSURE**

FEATURES

- Solid state, high reliability
- Standard Dual In-line Package (DIP) configuration. Surface mount also available
- Perfectly suited for PC boards or DIP sockets
- Differential pressure ports located on same side of pkg.
- Very low cost, small size
- Barbed pressure ports take 1/16" ID tubing-No additional fittings are necessary
- Media compatible with noncorrosive gases and moist air
- Standard pressure ranges are: 30 kPa (5 psi) 100kPa (15 psi) 200kPa (30 psi) 700kPa (100 psi)
- Output signal of 100 mv @ 1.5 mA
- Custom configurations available, including surface mount. Also 0-7 kPa (1 psi) model - please consult factory.



APPLICATIONS

Actual Size

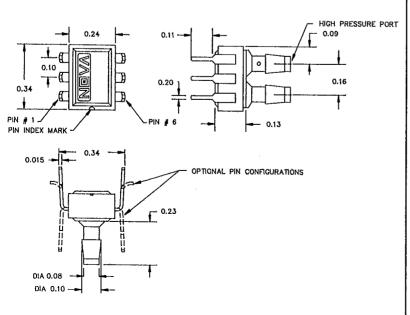
- Process control, P-to-I converters
- Pneumatic control systems
- HVAC controls
- Biomedical equipment
- Home appliances and recreational equipment
- · Aerospace: avionics, altitude, and cabin pressure sensors
- Computer peripherals

DESCRIPTION

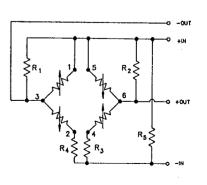
The Nova PS Series is designed in the form of a Mini-DIP plastic package, which takes advantage of existing high-volume leadframe IC packaging technology. It is the smallest differential pressure sensor available, with two 1/16" pressure ports. The sturdy package withstands over 300% overpressure.

These miniaturized sensors give the OEM user the maximum in mounting flexibility: besides standard pins down mounting to the DIP socket, they can be formed in the reverse direction or formed for surface mount as options. They can be used with non-corrosive pressure media, and are available in absolute as well as gage and differential configurations.

The PS small outline devices have a state-of-the-art IC piezoresistive silicon sensor which produces a linear voltage output proportional to input pressure. Resistor values are supplied with each sensor which compensate its performance over the operating temperature range and set the endpoints.



SCHEMATIC DIAGRAM



NOTE: VALUES FOR EXTERNAL TEMPERATURE COMPENSATIVE SESISTIVES CATUROWHED

PACKAGE OUTLINE DIMENSIONS

GENERAL		ENVIRONMENTAL							
Parameter W DataShee	Abbr.	<u>Value</u>	<u>Units</u>	Notes	<u>Parameter</u>	Abbr.	<u>Value</u>	<u>Units</u>	<u>Notes</u>
Pressure Range*	P	0- 30	kPa	0- 5 psi	Temperature Rar	nge			
	Р	0-100	kPa	0- 15 psi	Operating	Т,	-40 to +125	.c	-40° to +257°F
	P	0-200	kPa	0- 30 psi	Compensated	T.	0 to +70	·c	+32" to +158"F
	Р	0-700	kPa	0-100 psi					
					Vibration		10	G	20 to 2000 Hz
Maximum Pressure	Pmax		rated pre		Shock		100	G	11 milliseconds
Media Compatibility:	Noncorro	sive gas	and moist	tair	Life		100 x 10° n	nin cycles	
		······································							
					MECHANICAL				
ELECTRICAL (@ 25°C					Weight	W	<5	gr	<0.2 oz.
Input Excitation	[1.5	mA	2mA max.	Case Material				Plastic
Insulation Resistance	R _{iso}	100	MΩ	@ 50 Vdc				, , , , , , , , , , , , , , , , , , , 	the state of the s
Bridge Resistance	R _k	5000	Ω	± 10% typical					
	* Other p	oressure i	ranges in	cluding 0-1 psi a	vailable upon reque	st; plea:	se consult fac	ctory.	
PERFORMANCE **	AAT AT								
Parameter		<u> </u>		Value	Units	Notes	<u>1985/8819</u> 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u>i distribution di Para P</u>
Offset				±2	mV	75 10 E		978-8175-F	
Thermal Accuracy Offs	set	<u> </u>	<u>. 929 - 5</u>	± 1.0	%FSO	0 to +7	70°C (with refe	rence to 25	'C)
Thermal Accuracy - Fu		itout		±1.0	%FSO		70°C (with refe		
Full Scale Output	modalo. Ot	uipui		100 ± 40	mV	@ 1.5		iorido (o Lo	
Nonlinearity				± 0.2	%FSO		t straight line		
Hysteresis	**********		نخفسنسف	± 0.05	%FSO				<u> </u>
Repeatibility				± 0.05	%FSO				
Thermal Hysteresis	<u>ئنىسى خىسىدىنى</u>		<u> </u>	± 0.2	%FSO	0 to +7	70°C (typical)		in his in the second of the se
Long Term Stability -	Sensitivity	<i>/</i> -		±0.2	%FSO		(typical)	V 1.00 (1.00	
Long Term Stability - 0		· · · · · · · · · · · · · · · · · · ·		± 0.2	%FSO		(typical)	<u> </u>	de la companya de la
Notes: Performance All values are All values me current unles	e maximun easured in	n unless o reference	therwise			**Hig	her performa	nce availab	le upon request.
ORDERING INFORMATION:							Ī	REPRESEN	TED BY:
Nova ————————————————————————————————————		S - xxx x	1 = 2 = 3 =	Pin Configuration Standard, pins sta Pins inverted Surface mount essure nge in]		•	
Standard unit has two 1/1 may be used for gage pre high pressure port; this re Ordering Example: Ass rang Sales Terms: Net 30 da	essure mea equires the a sume a requ ge, differen	surement be applied president for attal unit. Mo	y leaving or ssure to be gage or dif odel numbe	ne port open to ambie greater than ambient fferential pressure me er would be: NPS-030	ent air. Absolute model u pressure. asurement with a 0-30 k DD1	1Ses	- -		
without no Warranty: NovaSensor date of shipm IS IN LIEU OF	ects in material and w nisuse will be repalred IMPLIED WARRANT nd assumes no liabilii		EGOING		w.DataShe	et4U.com			