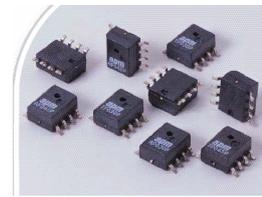


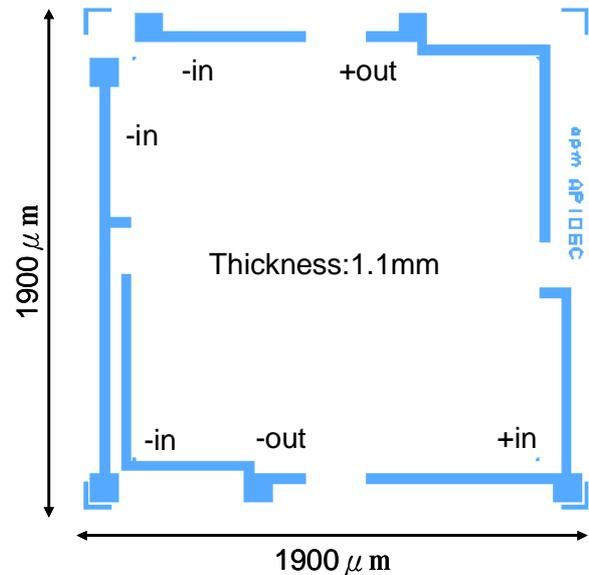
# ATP100 high span SO-8 Pressure Sensor



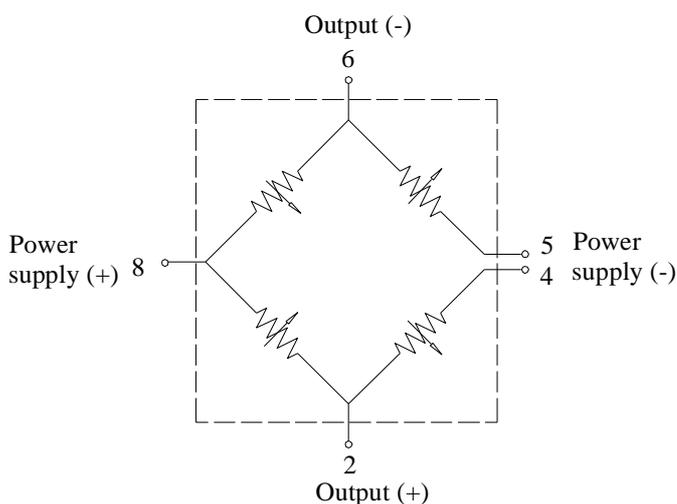
## DESCRIPTION

The ATP100 high span pressure sensor features a micromachined silicon solid-state sensor. All parts in this series are uncompensated high-performance die mounted on a SO-8 package. Pins are designed for surface mount assembly. The ATP100 high span is ideal for applications requiring low hysteresis, high reliability and stability.

With constant voltage excitation or constant current excitation, the ATP100 high span produces a voltage output that is linearly proportional to the input pressure. The user can add on external signal conditioning circuitry to amplify the output signal and maximize its performance. The ATP100 high span is compatible with most noncorrosive gases and dry air.



## SCHEMATIC DIAGRAM



## FEATURES

- .. Surface Mount Package
- .. Low Cost
- .. Wide operating temperature range:  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
- .. Solid-state reliability
- .. Easy to use

## APPLICATIONS

- .. Digital Pressure Gauges
- .. Consumer & Sports
- .. Pressure Switches and Controllers
- .. Automotive Tire Pressure

## HOW TO ORDER

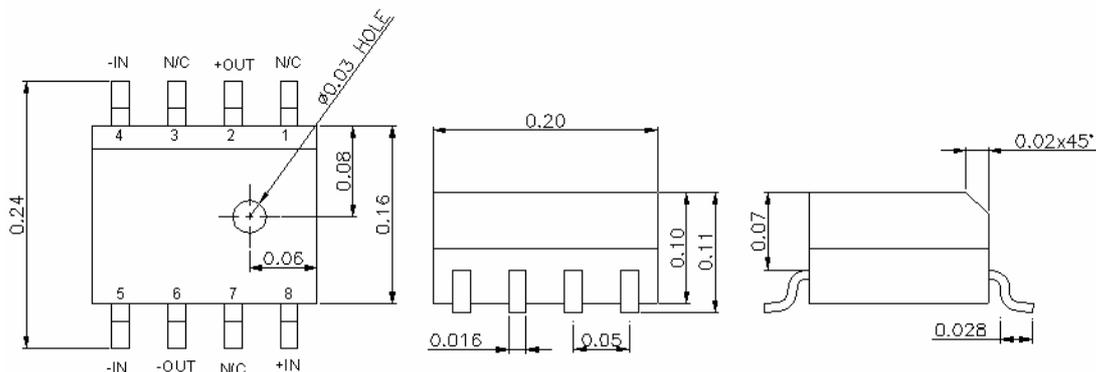
Part Number:	Description:
ATP1000G3000-B	100 Psia, high span Die
ATP1000G3000-F	100 Psia, high span SO-8



# ATP100 High Span Specifications

Parameter	Value		Units	Notes
<b>General</b>				
Pressure Range	70	100	PSI	absolute pressure
Maximum Overpressure	3X			rated pressure
<b>Electrical @25°C (77°F) unless otherwise specified</b>				
Excitation	3		VDC	
Input Impedance	4~6		kΩ	
Output Impedance	4~6		kΩ	
<b>Environmental</b>				
Operating Temperature Range	-40~+125		°C	-40 °F ~+257°F
Storage Temperature Range	-40~+125		°C	-40 °F ~+257 °F
<b>Mechanical</b>				
Weight	<1.0		grams	
Footprint	SO-8			
Media Compatibility	Clean, dry air & noncorrosive gases			
<b>Performance<sup>(1)</sup></b>				
Zero Offset	30±15		mV	
Span	135±30	190±30	mV	
Bridge Resistance	4~6		kΩ	
Linearity	±0.3	±0.6	% Span	2
Hysteresis	±0.3		% Span	
Temperature Coefficient of Zero Offset	-0.08~+0.08		% Span/°C	3
Temperature Coefficient of Span	-0.1~-0.3		%Span/°C	3
Notes: 1. All values are Minimum/Maximum and are measured at 3 VDC and 25 °C unless otherwise specified. 2. Best fit straight line. 3. Between -20 °C and 100 °C. Temperature coefficients are typical values.				

## PACKAGE DIAGRAM



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