

# FlexiForce®

## HT201 High-Temperature Force & Load Sensors



Actual size of sensor

Sensing area

### Physical Properties

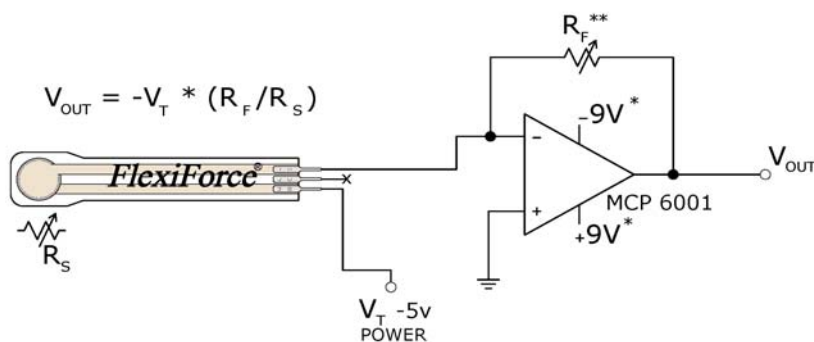
Thickness	0.008" (0.203 mm)
Length	7.75" (197 mm)
<i>optional</i>	6" (152 mm)
<i>trimmed</i>	4" (102 mm)
<i>lengths</i>	2" (51 mm)
Width	0.55" (14 mm)
Sensing Area	0.375" (9.53 mm) diameter
Connector	3-pin Male Square Pin (center pin is inactive)
Substrate	Polyimide (ex: Kapton)

### Available Force Ranges\* (as tested with circuit shown)

HT201-L	Low: 0-30lb (0-133N)
HT201-H	High: 0-100lb (0-445N)

\*In order to measure forces outside of specified ranges, use recommended circuit and adjust drive voltage and/or reference resistance.

### Recommended Circuit



- \* Supply Voltages should be constant
- \*\* Reference Resistance  $R_F$  is 1k $\Omega$  to 100k $\Omega$
- Sensor Resistance  $R_S$  at no load is >5M $\Omega$
- Max recommended current is 2.5mA

### Typical Performance\*\*

Linearity	$\pm 1.2\%$ of full scale
Repeatability	$\pm 3.5\%$ of full scale
Hysteresis	3.6% of full scale
Drift	3.3% per log time
Temperature Range	15°F to 400°F (-9°C to 204°C)
Output Change/Degree F	0.16%

\*\*Specifications based on pressures up to 500 psi and represent the average value throughout a range of temperatures up to 400°F