

# FlexiForce®

High-Temperature Force & Load Sensors Model # HT201



Actual size of sensor

Sensing area

## Physical Properties

Thickness	0.203 mm (0.008 in.)
Length	197 mm (7.75 in.)* <i>*optional trimmed lengths: 152 mm (6in.), 102 mm (4 in.), 51 mm (2 in.)</i>
Width	14 mm (0.55 in.)
Sensing Area	9.53 mm (0.375 in.) diameter
Connector	3-pin Male Square Pin (center pin is inactive)
Substrate	Polyimide (ex: Kapton)
Pin Spacing	2.54 mm (0.1 in.)



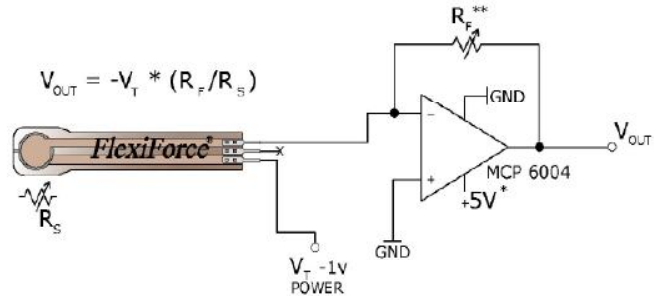
*\*Length does not include pins, please add 31.75 mm (0.25 in.) for pin length to equal a total length of 203.2 mm (8 in.).*

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

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

## Recommended Circuit

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



- \* 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 (Error)	<±3% of full scale
Repeatability	±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.**