

# Technical Data Sheet (Model #A101)

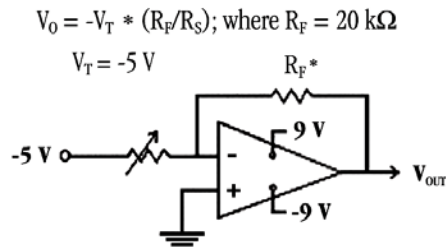
This data sheet provides technical performance characteristics for *FlexiForce*® Sensors.

## Physical Properties

Thickness	.005" (0.127 mm)
Length	8.00" (203 mm), 6.00", 4.00", or 2.00"
Width	0.55" (14 mm)
Sensing Area	.375" diameter (9.53 mm)
Connector	3-pin Male Square Pin



## Recommended Excitation Circuit



\*The range for  $R_F$  is 1  $\text{k}\Omega$  to 100  $\text{k}\Omega$   
\*\*Resistance at no load is 20  $\text{M}\Omega$

## Typical Performance

Linearity (Error)	< $\pm 5\%$
Repeatability	< $\pm 2.5\%$ of Full Scale
Hysteresis	< 4.5 % of Full Scale
Drift	< 3% per Logarithmic Time
Rise Time	< 20 $\mu\text{sec}$
Operating Temperature	15°F - 140°F (-9°C - 60°C)*

\*Force reading change per degree of temperature change =  $\pm 0.2\%/^{\circ}\text{F}$  (0.36%/°C)

\*\*For loads less than 10 lbs., the operating temperature can be increased to 165°F (74°C)

## Evaluation Conditions

Line drawn from 0 to 50% load  
Conditioned Sensor, 80% of Full Force Applied  
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Constant Load of 25 lbs. (111 N)  
Impact Load, Output recorded on Oscilloscope