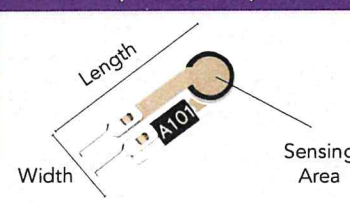
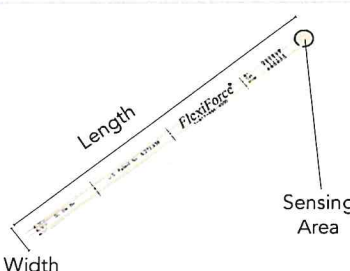
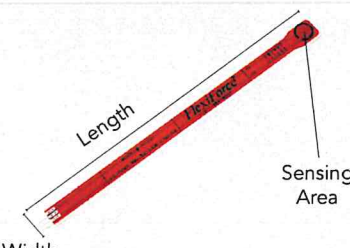
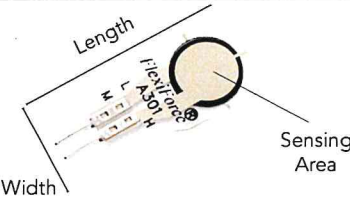
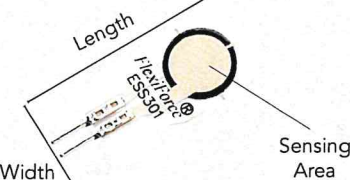
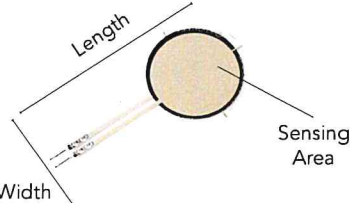


FlexiForce® Standard Sensors

Our standard sensor line below features a wide range of sensor sizes, properties, and force ranges. We also offer custom sensor designs to fit your needs. For a custom design, please contact us at +1 (617) 464- 4283.

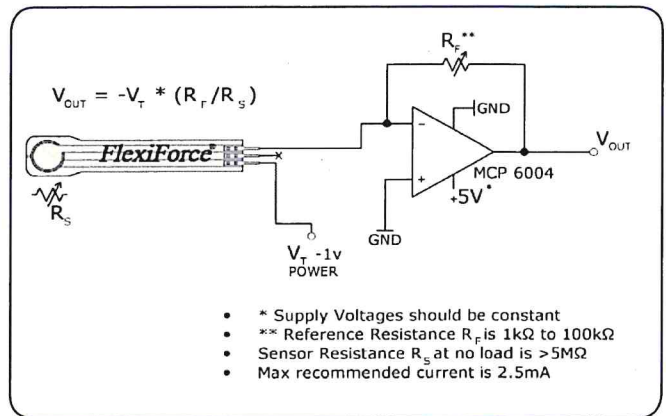
Model #	Image (not to scale)	Physical Properties		Force Ranges				
		Standard	Max	Standard	Max			
A101		Length 15.6 mm (0.62 in)	Width 7.6 mm (0.30 in)	Sensing Area 3.8 mm (0.15 in) diameter	Thickness 0.203 mm (0.008 in)	Connector 2-pin Male Square Pin	18 N (4 lbs)	45 N (10 lbs)
A201		Length 191 mm (7.5 in) trimmable	Width 14 mm (0.55 in)	Sensing Area 9.53 mm (0.375 in) diameter	Thickness 0.203 mm (0.008 in)	Connector 3-pin Male Square Pin (center pin is inactive)	4 N (1 lb)	45 N (10 lb)
HT201 (High-Temp)		Length 191 mm (7.5 in) trimmable	Width 14 mm (0.55 in)	Sensing Area 9.53 mm (0.375 in) diameter	Thickness 0.203 mm (0.008 in)	Connector 3-pin Male Square Pin (center pin is inactive)	133 N (30 lbs)	1134 N (300 lbs)
A301		Length 25.4 mm (1 in.)	Width 14 mm (0.55 in)	Sensing Area 9.53 mm (0.375 in) diameter	Thickness 0.203 mm (0.008 in)	Connector 2-pin Male Square Pin	4 N (1 lb)	45 N (10lbs)
ESS301 (Hi-Temp & Humidity)		Length 25.4 mm (1 in.)	Width 14 mm (0.55 in)	Sensing Area 9.53 mm (0.375 in) diameter	Thickness 0.203 mm (0.008 in)	Connector 2-pin Male Square Pin	4 N (1 lb)	4448 N (1000 lbs)
A401		Length 56.9 mm (2.24 in.)	Width 31.8 mm (1.25 in.)	Sensing Area 25.4 mm (1 in.) diameter	Thickness 0.203 mm (0.008 in)	Connector 2-pin Male Square Pin	111 N (25 lbs)	31137 N (7000 lbs)

HOW TO ADJUST FORCE RANGE

Models **A201-100**, **A301-100**, **HT201-100** can measure up to 1,000 lb; **A401** measures up to 7,000 lbs; **A101** measures up to 10 lbs; **ESS301** measures up to 100 lbs. In order to achieve these max forces, apply a lower drive voltage (-0.5 V, -0.10 V, etc.) and reduce the resistance of the feedback resistor (1kΩ min.) Conversely, the sensitivity can be increased for measurement of lower forces by increasing the drive voltage or resistance of the feedback resistor.

For an alternative to the recommended circuit, try our FlexiForce® Quickstart Board. This is a finished single voltage source circuit which can be quickly dropped into a prototype or easily designed into a product to obtain force measurements.

Recommended Circuit



Quickstart Board



GETTING STARTED WITH FLEXIFORCE SENSORS

FlexiForce sensors are available off-the-shelf to meet your testing, prototyping, and product integration needs. They are available in our online store starting at just \$65 for a pack of four sensors or can be purchased at a discount for large quantities. Visit our online store at www.tekscan.com/store to place an order today.

For more information about custom sensors, please consult with one of our engineers, email info@tekscan.com or call toll-free 1.800.248.3669 (inside US) or dial +1.617.464.4283 (international).