

# FlexiForce™

## Economical Load & Force Measurement (ELF™)

The ELF System is a user-friendly, cost-effective load measurement system. This system combines three FlexiForce B201 sensors, USB-interface electronics, and Windows-compatible software\*, turning your PC or laptop into a force measurement instrument. This system is capable of multi-point sensing and available in a high-speed version.

\* Compatible with Windows 7, 8.1, and 10

\* Software v 4.3 and above is not compatible with previous wired handles starting with serial#125 (see back of handle)



## Features

- Real-time data capture
- ASCII output to data analysis software
- Simple and storable calibration
- Adjustable sensitivity
- Multiple handle capability available
- Displays in strip chart, column graph, or digital readout
- Movie recording & saving
- Multi-point calibration
- Capability to tare a load
- Internal load triggering
- Sampling rates up to 200 Hz
- High-Speed version available, up to 6000 Hz
- Includes 3 FlexiForce B201 sensors
- ELF is compatible with all FlexiForce sensor models using the ELF adapter tab
- Additional handles available for purchase

ELF System	Sampling Rate	Max # of Handles	Includes
Standard	Up to 200 Hz	Up to 16	<ul style="list-style-type: none"> <li>• (1) Handle</li> <li>• (3) B201 Sensors</li> <li>• ELF Software</li> </ul>
High-Speed	Up to 6,000 Hz	Up to 16	<ul style="list-style-type: none"> <li>• (1) Handle</li> <li>• (3) B201 Sensors</li> <li>• High-Speed ELF Software</li> </ul>

# Physical Properties of B201 Sensor

Thickness	0.203 mm (0.008 in.)
Length	228.6 mm (9 in.) End-to-end
Width	14 mm (.55 in.)
Sensing Area	9.53 mm (0.375 in.) diameter
Connector	Interface to ELF™ data acquisition system handle (handle connects to USB port)
Substrate	Polyester

The ELF system is compatible with all FlexiForce sensor models using the ELF adapter tab.

**✓ ROHS COMPLIANT**

# Recommended Maximum Force

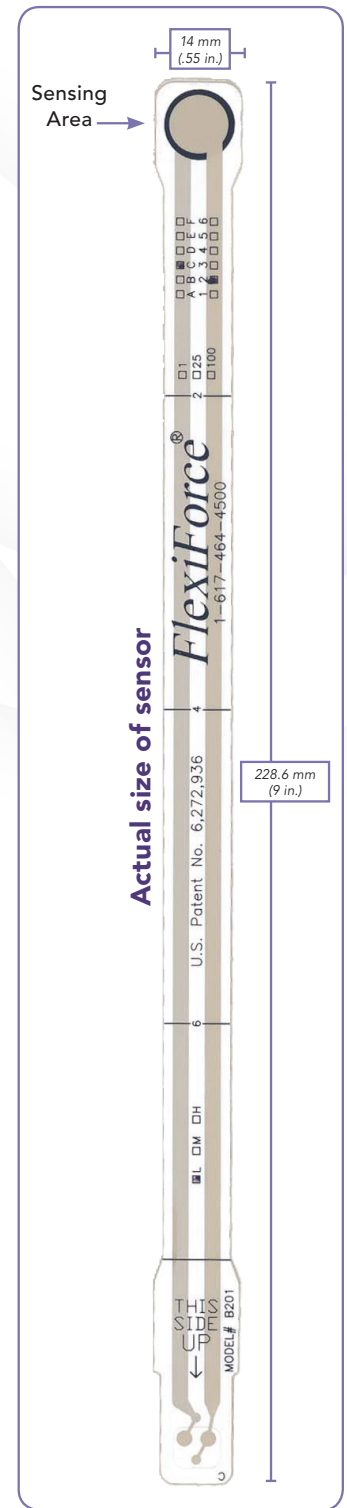
(variable gain feature of the ELF System enables adjustable force ranges)

Sensor	High Gain Maximum Force	Low Gain Maximum Force
B201-L	4.4 N (0 - 1 lb)	111 N (0 - 25 lb)
B201-M	111 N (0 - 25 lb)	667 N (0 - 150 lb)
B201-H	667 N (0 - 150 lb)	4448 N (0 - 1,000 lb)

	Typical Performance	Evaluation Conditions
Linearity (Error)	< ±3% of full scale	Line drawn from 0 to 50% load
Repeatability	< ±2.5%	Conditioned sensor, 80% of full force applied
Hysteresis	< 4.5% of full scale	Conditioned sensor, 80% of full force applied
Drift	< 5% per logarithmic time scale	Constant load of 111 N (25 lb)
Operating Temperature	-40°C - 60°C (-40°F - 140°F)	Convection and conduction heat sources

Force reading change per degree of temperature change = 0.36%/°C (±0.2%/°F)

# B201 SENSOR



**PURCHASE TODAY ONLINE AT [WWW.TEKSCAN.COM/STORE](http://WWW.TEKSCAN.COM/STORE)**



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