

FlexiForce[®] Economical Load and Force Measurement (ELF[™])

The ELF System is a user-friendly, cost-effective load measurement system. This system combines 3 FlexiForce B201 sensors, USB-interface electronics, and Windowscompatible 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, 8.1, 10, XP, and Vista

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

KEY 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

12.5 27.0

16.4

- Includes 3 FlexiForce B201 sensors
- ELF is compatible with all FlexiForce sensor models using the ELF adapter tab
- Additional handles available for purchase

SYSTEM PERFORMANCE

ELF System	Sampling Rate	Max. # of Handles	Includes:
Standard	Up to 200 Hz	Up to 16	(1) Handle(3) B201 SensorsELF Software
High-Speed	Up to 6,000 Hz	Up to 16	(1) Handle(3) B201 SensorsHigh-Speed ELF Software

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B201 SENSOR

Sensing Area – 14 mm (.55 in.)

Actual size of sensor

6,272,936

Patent No.

U.S.

MC ON OH

EL# B2015

228.6 mm (9 in.)

PHYSICAL PROPERTIES OF B201 SENSOR

Thickness	0.203 mm (0.008 in.)	
Length	28.6 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 (ex: Mylar)	

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

RECOMMENDED MAXIMUM FORCE

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

	High Gain	Low Gain
Sensor	Maximum Force	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%	Line drawn from 0 to 50% load
Repeatability	$< \pm 2.5\%$ of full scale	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)	

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



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