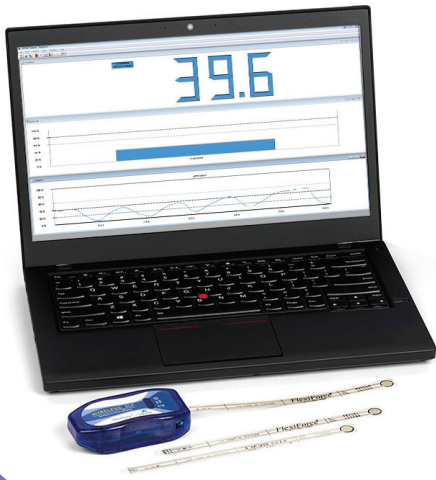


# FlexiForce™

## Wireless Economical Load & Force Measurement 2 (WELF™ 2)

The Wireless ELF 2 System (WELF2) is a user-friendly, cost-effective load measurement system. This system combines three FlexiForce WB201 sensors, a battery-operated WiFi transmitter (certified 802.11b radio- 802.11b/g/n compatible), and Windows-compatible software\*, turning your PC or laptop into a force measurement instrument. The WELF2 system has sampling rates up to 200 Hz and is available in a high-speed version with sampling rates up to 6,000 Hz. The system has multi-handle capabilities and can support up to 16 handles. The WiFi connection setup has access point (unsecured router) network capability. Additional handles can be purchased for multi-handle use.

\* Compatible with Windows 7, 8.1, and 10



## Features

- Real-time data capture
- ASCII output to data analysis software
- Simple and storable calibration
- Adjustable sensitivity
- Displays in strip chart, column graph, or digital readout
- Movie recording & saving
- Multi-point calibration
- Capability to tare a load
- Internal load triggering
- Includes 3 AAA Batteries with battery life up to 5 hours
- Optional power supply is available for purchase
- Includes 3 FlexiForce WB201 sensors
- WELF 2 is compatible with all FlexiForce sensor models with 2 and 3 male pin terminations, except A101
- Additional transmitters available for purchase (an unsecured router is required for multi-handle use)
- Wireless router (unencrypted) included

WELF 2 System	Sampling Rate	Range	Max # of Transmitters	Includes
Standard	Up to 200 Hz	1 Transmitter - 65 meters 1+ Trans. - 50 Meters	Up to 16	<ul style="list-style-type: none"> <li>• (1) Handle</li> <li>• (3) WB201 Sensors</li> <li>• ELF Software</li> <li>• Wireless Router</li> </ul>
High-Speed	Up to 6,000 Hz	1 Transmitter - 65 meters 1+ Trans. - 25 Meters	Up to 16	<ul style="list-style-type: none"> <li>• (1) Handle</li> <li>• (3) WB201 Sensors</li> <li>• High-Speed ELF Software</li> <li>• Wireless Router</li> </ul>

## Physical WiFi Transmitter Properties

Weight	95 g (3.3 oz.)
Length	95.3 mm (3.7 in.)
Width	46.4 mm (1.83 in.)
Height	26.7 mm (1.05 in.)



## WB201 SENSOR

## Physical Properties of WB201 Sensor

Thickness	0.208 mm (0.008 in.)
Length	197 mm (7.75 in.) End-to-end
Width	14 mm (0.55 in.)
Sensing Area	9.53 mm (0.375 in.) diameter

WELF 2 is compatible with FlexiForce sensor models A201, A301, A401, and A502



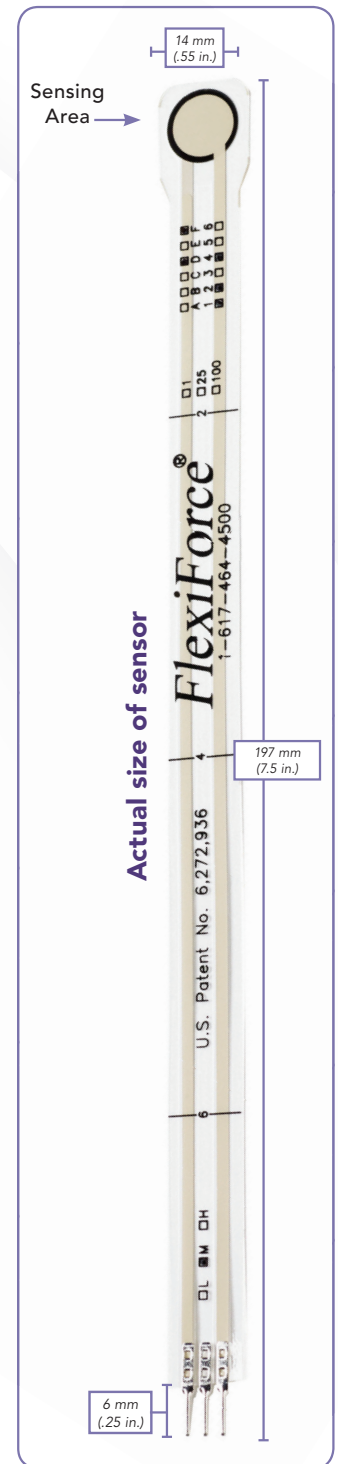
## Recommended Maximum Force

(variable gain feature of the WELF2 System enables adjustable force ranges)

Sensor	High Gain	Low Gain
	Maximum Force	Maximum Force
WB201-L	4.4 N (0 - 1 lb)	111 N (0 - 25 lb)
WB201-M	111 N (0 - 25 lb)	667 N (0 - 150 lb)
WB201-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)



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