



# FlexiForce<sup>®</sup>

## Wireless Economical Load and Force Measurement<sup>™</sup> 2 (WELF2)

The Wireless ELF 2 System (WELF2) is a user-friendly, cost-effective load measurement system. This system combines 3 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 ad hoc and access point (unsecured router) network capability. For multi-handle use, an unsecured router is required.

\* Compatible with Windows 7, 8, XP, and Vista



## KEY 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 using the ELF adapter tab
- Additional transmitters available for purchase (an unsecured router is required for multi-handle use.)

## SYSTEM PERFORMANCE

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) Transmitter</li><li>• (3) WB201 Sensors</li><li>• ELF Software</li></ul>
High-Speed	Up to 6,000 Hz	1 Transmitter - 65 meters 1+ Trans. - 25 Meters	Up to 8	<ul style="list-style-type: none"><li>• (1) Transmitter</li><li>• (3) WB201 Sensors</li><li>• High-Speed ELF Software</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.)



WELF2 Handle (WiFi Transmitter)

## PHYSICAL SENSOR PROPERTIES OF WB201

Thickness 0.208 mm (0.008 in.)  
 Length 228.6 mm (9 in.) End-to-end  
 Width 14 mm (0.55 in.)  
 Sensing Area 9.53 mm (0.375 in.) diameter

✓ ROHS COMPLIANT

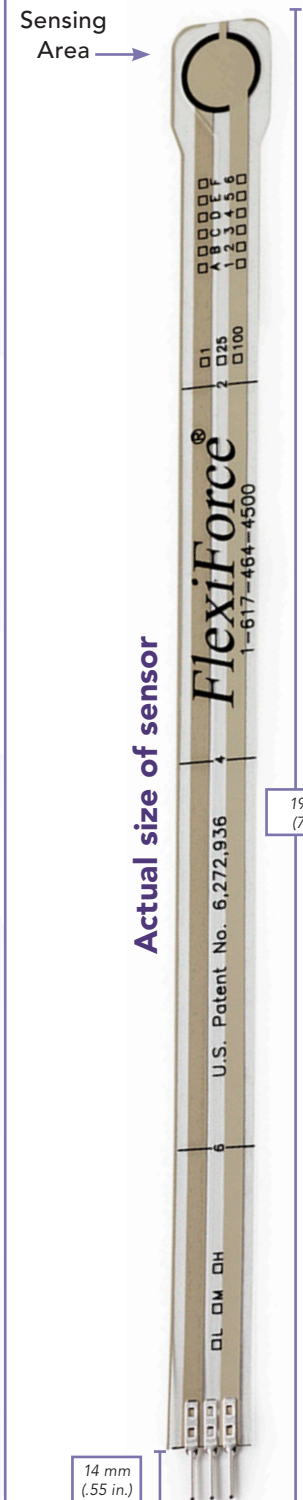
WELF 2 is compatible with all FlexiForce sensor models using the ELF adapter tab.

## RECOMMENDED MAXIMUM FORCE

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

Sensor	High Gain Maximum Force	Low Gain 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%	Line drawn from 0 to 50% load
Repeatability	< ±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)	



Actual size of sensor



ISO 9001 & 13485



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