

LWP-FB Force Measurement

FB- (and FC) series force gauges are designed to measure push and pull force in a wide range of force values. They can be applied in specialized laboratories, in manufacture and quality control.



- ✓ Measurement of push and pull force
- ✓ 40 measurements/s (FB series)
- ✓ 1000 measurements/s (FC series)
- ✓ Internal or external force sensor
- ✓ MicroSD measurement memory card slot
- ✓ Mass measurement option
- ✓ RS232C, USB for computer and printer
- ✓ Maximal value measurement, statistics,
- ✓ Threshold comparison and graphs

FB- (and FC) series force gauges are designed to measure push and pull force in a wide range of force values. They can be applied in specialized laboratories, in manufacture and quality control. FC series have increased sampling time (1000 measurements per second!) that enables better measurement of dynamical forces. The meters are characterized by ergonomic shape and ease of use.

A set of gauging terminals, supplied with the meter in a convenient case, allows the meter to be used as a universal measuring device. The meters with internal force sensor can be used for manual measurements and for measurements taken while the meter is fixed or suspended. Versions with external force sensor are used for large force measurement.

Graphical display with reversing image while the meter is reversed, enables convenient representations of the results of measurement in form of histograms or graphs. Text messages and menu can be displayed in Polish, English, German and Spanish.

The meters are equipped with a rich variety of special functions: force unit (N) or mass unit selection (kg, g, lb, oz) autozero, measuring maximum value comparison with threshold values Min/OK/Max, statistical calculations, graphs, battery charging control and others. The RS232C and USB interface enable to connect a printer or computer. IN/OUT interfaces are used to automate measurements.

A wide range of printout configurations ensures that GLP procedure requirements are met.

LWP-FB Specifications:

Model	FB5	FB10	FB20	FB50	FB200	FB500
Capacity, max	5N (~0,5 kg)	10N (~1 kg)	20N (~2 kg)	50N (~5 kg)	200N (~20 kg)	500N (~50 kg)
Sensor, type	Internal					
Reading (d)	0,001N	0,002N	0,005N	0,01N	0,05N	0,1N
Accuracy	+/- 0,1% of F.S.					
Max overload	20 %					
Working temp	-10 → +40°C					
Units	N, g, lb, oz, kg, kgf, lbf, ozf					
Interfaces	RS232C, USB. Optional: WE (trigger and gate type), WY (threshold function)					
Sampling time	0,1s / 0,025s (10 or 40 measurements/s)					
Display	LCD graphical 61 x 34 mm					
Dimensions	2150 x 98 x 41 mm					
Weight	430 g (excl adaptor)					
Power supply	220/12V adaptor, NiMH rechargeable battery					

Model	FB1k	FB2k	FB5k	FB10k	FB20k	FB50k
Capacity, max	1kN (~100 kg)	2kN (~200 kg)	5kN (~500 kg)	10kN (~1000 kg)	20kN (~2000 kg)	50kN (~5000 kg)
Sensor, type	External					
Reading (d)	0,2N	0,5N	1N	2N	5N	10N
Accuracy	+/- 0,1% of F.S.					
Max overload	20 %					
Working temp	-10 → +40°C					
Units	N, g, lb, oz, kg, kgf, lbf, ozf					
Interfaces	RS232C, USB. Optional: WE (trigger and gate type), WY (threshold function)					
Sampling time	0,1s / 0,025s (10 or 40 measurements/s)					
Display	LCD graphical 61 x 34 mm					
Dimensions	2150 x 98 x 41 mm					
Weight	430 g (excl adaptor)					
Power supply	220/12V adaptor, NiMH rechargeable battery					
<i>*Higher capacities available on request.</i>						

Options

- ✓ Optoisolator exit (tHr and trigger)
- ✓ Bluetooth
- ✓ Test stand STV
- ✓ Test stand STH
- ✓ Vertical.automation.stand STAV
- ✓ Horizontal.automation.stand STAH
- ✓ Two-handed grip UD-FB
- ✓ Hook HK-FB
- ✓ Clamp SJJ05, SJJ11, SJJ13