



- 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

Force gauges



FB5-FB500  
FC5-FC500



FB1k-FB50k, FB100k-FB200k\*  
FC1k-FC50k, FC100k-FC200k\*



\* FB100k-FB200k i FC100k-FC200k sensors are supplied without bearings

**FB and FC series**

**FORCE GAUGES**

## FB and FC series FORCE GAUGES

FB and FC series force gauges are designed to measure push and pull force in 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.

They 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 language.

The meters are equipped with a rich variety of special functions: force unit (N) or mass unit selection (kg, g, lb, oz), autozeroing, 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 interface are used to automate measurements.

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

AXIS FM computer program enables precise strength evaluation, observation of force changes in time, static analysis and archivisation of big amount of data.

Options on demand:

- hook for hanging the meter
- support stand with slide caliper
- double-hand grip



Complete FB/FC set in suitcase



Hook

Double-hand grip

Support stand



Push force measurement



Pull force measurement



Mass measurement

Technical data	internal sensor							external sensor								
	FB5 FC5	FB10 FC10	FB20 FC20	FB50 FC50	FB200 FC200	FB500 FC500	FB1k FC1k	FB2k FC2k	FB5k FC5k	FB10k FC10k	FB20k FC20k	FB50k FC50k	FB100k FC100k	FB150k FC150k	FB200k FC200k	
Meter type	FB5 FC5	FB10 FC10	FB20 FC20	FB50 FC50	FB200 FC200	FB500 FC500	FB1k FC1k	FB2k FC2k	FB5k FC5k	FB10k FC10k	FB20k FC20k	FB50k FC50k	FB100k FC100k	FB150k FC150k	FB200k FC200k	
Maximum force measured (weight)	5N (~0,5kg)	10N (~1kg)	20N (~2kg)	50N (~5kg)	200N (~20kg)	500N (~50kg)	1kN (~100kg)	2kN (~200kg)	5kN (~500kg)	10kN (~1t)	20kN (~2t)	50kN (~5t)	100kN (~10t)	150kN (~15t)	200kN (~20t)	
Reading graduation	0,001N	0,002N	0,005N	0,01N	0,05N	0,1N	0,2N	0,5N	1N	2N	5N	10N	20N	50N	50N	
Accuracy	±0,1% F.S.															
Maximum overload	±20%															
Operational temperature	-10 ÷ +40°C															
Units	N, kgf, lbf, ozf, g, lb, oz, kg															
Display	graphical LCD 61x34mm, mass indication digits height 7mm															
Measurement speed	FB series: 10 or 40 measurements/s							FC series: regulated max 1000 measurements/s								
Measuring functions	maximal value measurement, serial measurement, measurement in time															
Measurements memory	microSD card															
Interfaces	RS232C, USB Options: trigger IN, transoptor OUT (for thr function)															
Software	AXIS FM program															
Power supply	internal accumulators NiMH: 4x1,2V 2700mAh + supply: ~230V 50Hz / 12V; 1,2A															
Working time with accumulator	~30h (~25h with backlighting)															
Gauge plunger	length 11mm, thread M6x8mm							-								
Dimensions	210x100x40mm							210x100x40mm (without sensor)								
Weight	700g							460g + sensor weight								