

# Grip Strength Meter

for evaluation of muscular strength in rodents



## PRODUCT OVERVIEW

The grip strength meter allows the study of neuromuscular functions in rodents by determining the maximum force displayed by an animal. This test is included in the Functional Observational Battery (FOB) to screen for neurobehavioral toxicity. In this context, changes in grip strength are interpreted as evidence of motor neurotoxicity.

Basically, the grip strength meter is positioned horizontally and the subjects are held by the tail and lowered towards the apparatus. The animals are allowed to grasp the metal bar or grid and are then pulled backwards in the horizontal plane. The force applied to the bar or to the grid just before it loses grip is recorded as the peak tension. This force can be measured in grams, Newtons or lbs.

Data output is carried out through RS232, printer, or chart recorder.

Depending on the bar/grid type used, grip strength can be measured from the front or hind paws.

## Key Features

- Pre-calibrated easy to use system
- Highly accurate sensor
- Fit to Rats and Mice with a simple change of grip accessories
- Stand alone system, no need of computer
- Multi-units display : Kg, gram, lb, Newton...
- Internal memory for data storage
- **New** Potent internal statistical computation

## APPLICATIONS

Motor phenotyping, Drug screening, Neuromuscular diseases, Parkinson disease, Huntington disease, Aging

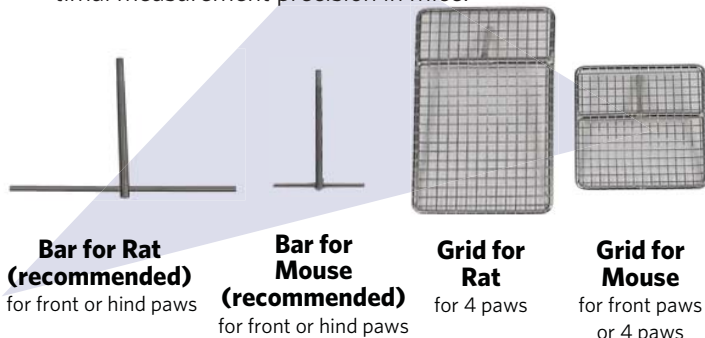
# Grip Strength Meter

## ROBUST & FLEXIBLE!

A unique device for rat and mice!

Different bars and grids are available depending on the specie and the limbs to test.

- Same sensor, same accuracy!
- Unmatched sampling speed (1000 Hz) allowing optimal measurement precision in mice.

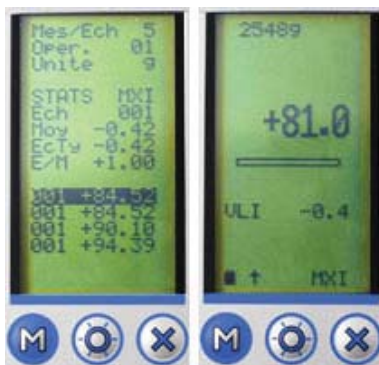


Robustness & stability in the measurements!

- Provided with a loaded support stand for ensuring the total immobility of the device during the measurement.



## NEW INTEGRATED STATISTIC MENU!



Unique feature in the market !

- Recently an embedded statistical computation, has been included in the electronic unit.
- The displays shows in real time the average value, standard deviation and variability for several subjects groups and up to 100 animals.
- This feature allows also to cancel any grip strength test not correctly performed.

An ideal tool for completing Rotarod studies!!!



### SPECIFICATIONS

Dimensions	400 (W) x 180 (D) x 200 (H) mm for the Single grip model and 750 (W) x 180 (D) x 200 (H) mm for the Double grip model (can be used to measure front + hind paws ).
Sensor characteristics	Capacity: 0-2 Kg (20N). Resolution: 1 gram. Other capacities on request.
Measurement	Sampling speed: 1000 Hz. Range: 0 to 2000 grams. Accuracy: 0.2% of full scale.
Power Supply Accumulator	4 hours and/or 220V or 240V. Other power supply on request.
Bars and Grids	Stainless steel, allowing sterilization, with a specific design to protect the animal paws from injuries, different bars and grids are available depending on the specie and the limbs to test.

### ORDERING INFORMATION

	BSBIOGS3	76-0100	Single Grip test package with one Bar/Grid system (to be specified at the time of purchase)
OPTION	BSBIOAGRS232	76-0073	Data acquisition RSIC software for direct data exportation to Excel
OPTION	BSRS232	76-0071	Communication's cable
OPTION	BSGST	76-0102	Statistic Printer and cable
OPTION	BSBIOGRIPBR	76-0479	Additional bar for rats - Front or hind Paws
OPTION	BSBIOGRIPBS	76-0480	Additional bar for mice - Front or hind Paws
OPTION	BSBIOGRIPGR	76-0481	Additional grid for rats - Four paws
OPTION	BSBIOGRIPGS	76-0482	Additional grid for mice - Front paws or four paws

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