DIGITAL GRIP STRENGTH METER

For studying neuromuscular functions in rodents

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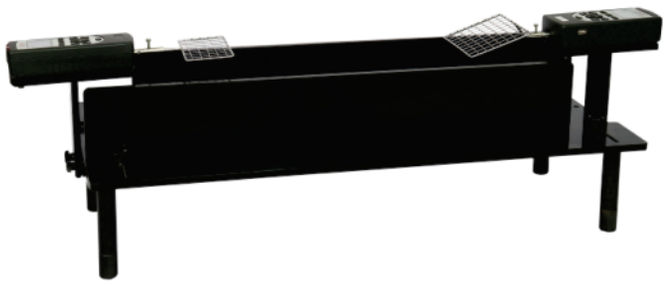

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For studying neuromuscular functions in rodents

The Grip Strength Meter measures the muscle strength in both forelimbs and hind limbs, allowing assessment of neuromuscular function.

The system can be used to study effects of hormones, toxins, muscle relaxants as well as disease or the aging process on the muscular strength of the animal. The system can be configured for rats, mouse or other small laboratory animals.

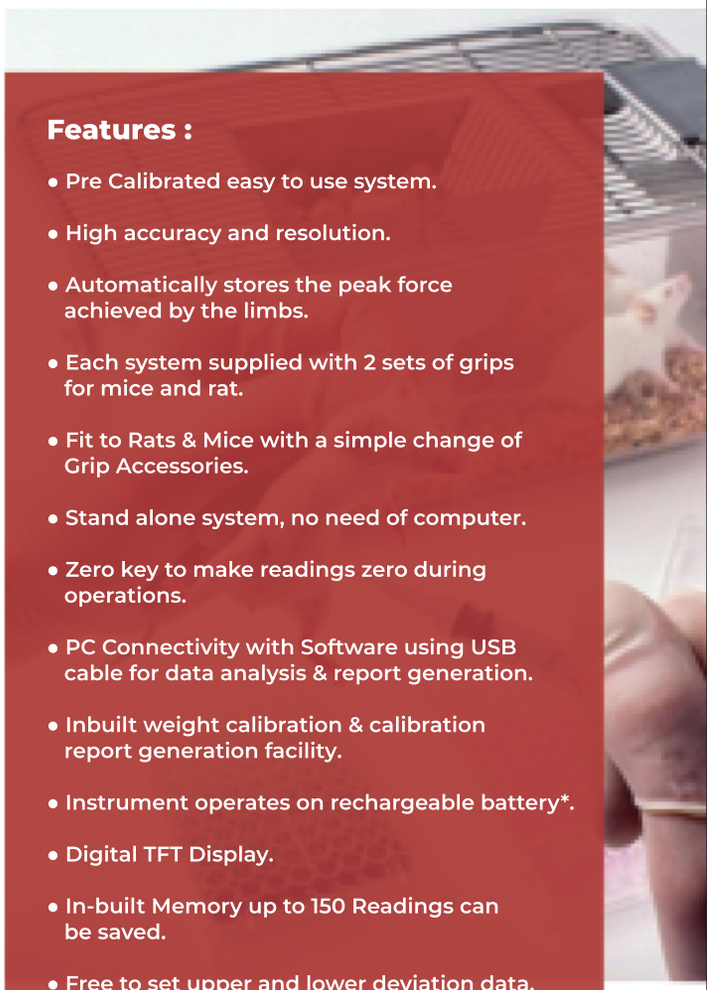
Basically, the grip strength meter is positioned horizontally and the subjects are held by the tail and lowered towards the apparatus. The animals are allowed to grasp the metal bar or grid andare then pulled backwards in the horizontal plane. The force applied to the bar or to the grid just before it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

Systems for measuring grip strength of both front limb as well as hind limbs of mice & rats are available.

Applications :

- Motor Phenotyping
- Drug Screening
- Neuromuscular Diseases
- Parkinson Disease
- Huntington Disease
- Aging

*For India only due to restrictions of battery transportation



Features :

- Pre Calibrated easy to use system.
- High accuracy and resolution.
- Automatically stores the peak force achieved by the limbs.
- Each system supplied with 2 sets of grips for mice and rat.
- Fit to Rats & Mice with a simple change of Grip Accessories.
- Stand alone system, no need of computer.
- Zero key to make readings zero during operations.
- PC Connectivity with Software using USB cable for data analysis & report generation.
- Inbuilt weight calibration & calibration report generation facility.
- Instrument operates on rechargeable battery*.
- Digital TFT Display.
- In-built Memory up to 150 Readings can be saved.
- Free to set upper and lower deviation data, automatically determine whether or not qualified.
- Three units for measurement available gf/N/ lbf.

Software Features :

- Provision to add experiment name, instrument serial number, test ID, animal sex and animal start number and animal end number setting, so that no need of manual entry of animal number for each animal.
- Software will automatically create the rows from selected animal start number up to the last animal number.
- Averaging option: Software will automatically give average of 3 readings if needed.
- Error code option: Errors like instrument error, wrong animal number and repeat trial can be coded in front of a particular reading if needed.
- Data can be converted to excel & Pdf file for further analysis.

System Specifications & Models :

Specifications	Model	
	GSM 01RS	GSM 02RS
Capacity	2000gf	2000gf
Resolution	0.1gf	0.1gf
Accuracy	±0.2%	±0.2%
Display	TFT	TFT
Battery	Rechargeable batteries*	
Unit	Gram/N/lbs	Gram/N/lbs
Useful For	Forelimbs	Forelimbs & Hindlimbs
PC Connectivity	Through USB	Through USB
Material of Composition	Methacrylate, S.S. 304	Methacrylate, S.S. 304
Certifications	CE Compliant	CE Compliant
Power Requirements	220/230V AC 50Hz 110/120V AC 50-60Hz**	220/230V AC 50Hz 110/120V AC 50-60Hz**

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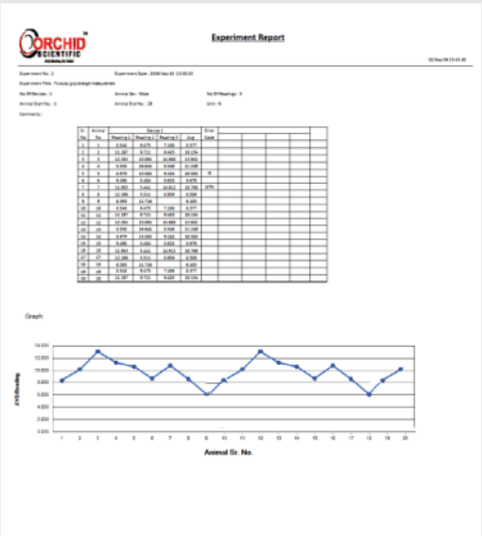
**Needs to be specified in order information
Note : Orchid's continuing product development makes specifications subject to change without prior notification.

Software Report Formats :



Ordering Information :

Model	Useful For	Sensor	Accessories
GSM 01 RS	Forelimbs	One sensor unit with USB port	1 set of grip for mice : Standard Grip, T grip 1 set of grip for rat: Standard Grip, T grip Height Adjustable stand Software for PC Connectivity
GSM 02 RS	Forelimbs & Hindlimbs	Two sensor units with USB port	2 sets of grip for mice: Standard Grip, T grip 2 set of grip for rat: Standard Grip, T grip Height Adjustable stand Software for PC Connectivity

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Contact US

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