Digital Grip Strength Meter

FOR STUDYING NEUROMUSCULAR FUNCTION IN RODENTS

The Grip Strength Meter measures the muscle strength in both forelimbs and hind limbs, allowing assessment of neuromuscular function. The grip strength is a task designed to assess neuromuscular function and muscular strength by sensing the peak amount of force that is required to make a mouse or rat release its grip. Grip strength is measured as tension force using a grip strength meter (GSM).

> **Designed To Measures The Muscle Strength In Both Forelimbs And Hind Limbs, Allowing Assessment Of Neuromuscular Function.**

The animal is placed over a base plate, in front of a grasping bar (either T-shaped or rectangular shaped), whose height is adjustable. The bar is fitted to a force transducer connected to the Peak Amplifier.

FEATURES:

- Pre Calibrated easy to use system
- High accuracy and resolution
- Automatically stores the peak force achieved by the limbs
- Each system is supplied with 2 sets of grips for mice and rats
- Fit to Rats & Mice with a simple change of Grip Accessories
- Stand-alone system, no need for a computer
- Zero key to make readings zero during operations
- PC Connectivity with Software using Type-C cable for data analysis & report generation
- Inbuilt weight calibration
- Instrument operates on a 3200mAh rechargeable battery, Fully Charged for 15 hours.
- Digital LED Display
- Built-in Memory up to 800 Readings can be saved
- Free to set upper and lower deviation data, automatically determine whether or not qualified
- Six units for measurement available: gf, N, Kgf, lb, KN, N.M (Calibration Required after changing Unit)

* For shipping/ transportation of product with an inbuilt battery, please verify the country-wise air or ocean shipping policies.

SOFTWARE FEATURES:

- Provision of experiment title, instrument serial number, animal start number and animal end number, animal sex selection 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.
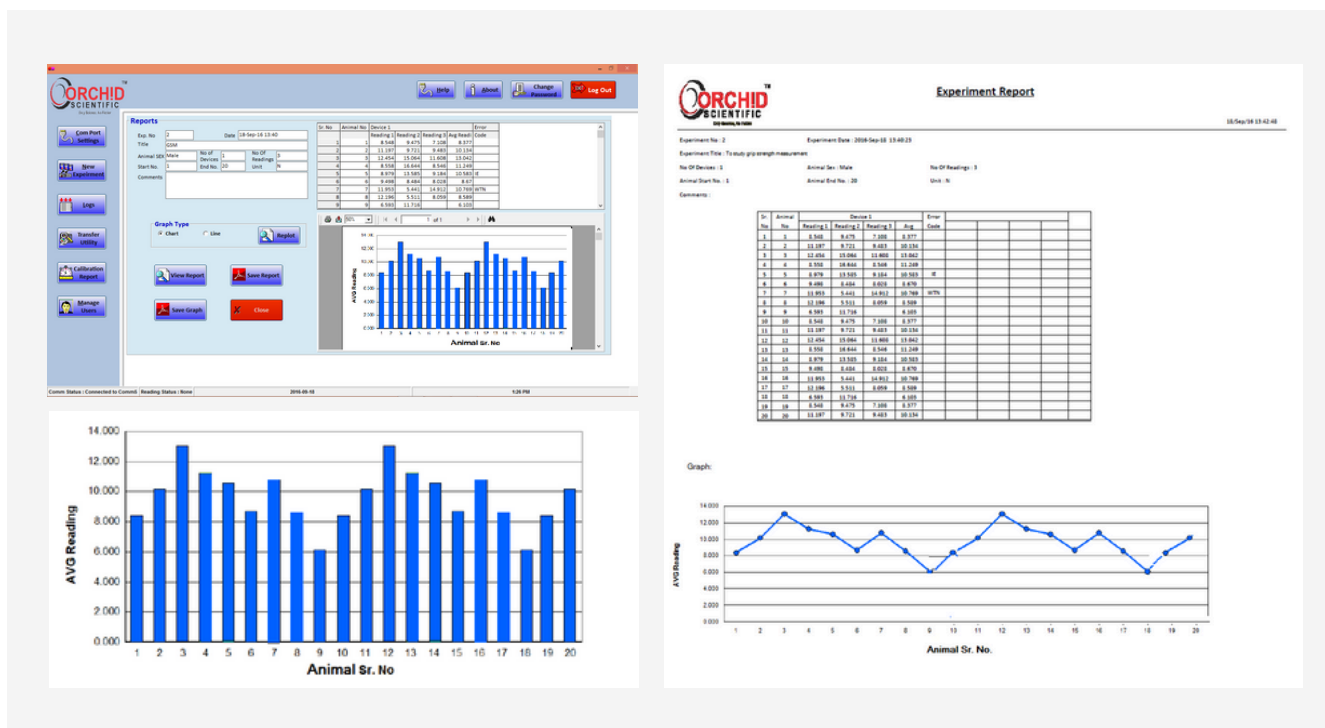
SYSTEM SPECIFICATION & MODELS:

Specifications	Model	
	GSM 01RS	**GSM 02RS**
Capacity	2000gf	
Accuracy	±0.1% FS	
Unit	gf / N / lbf / Kgf / KN / N.M	
Useful for	Forelimbs	Forelimbs & Hindlimbs
Material of composition	Methacrylate, S.S. 304	
Certifications	CE Compliant	
Power requirements	Inbuilt re-chargeable battery of 3200mAh with charging using Type C cable Battery life- Can be charged for 1000 times	

ORDERING INFORMATION:

Product	Useful For	Sensor	Accessories
GSM 01 RS	Forelimbs	One sensor unit	- 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	- 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

Note: Orchid's continuing product development makes specifications subject to change without prior notification.

SOFTWEAR REPORT FORMAT:

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