MouseMet EvF

Low-cost, high-precision Electronic von Frey designed specifically for mice

Covers the force range of the von Frey filaments used for testing mice

MouseMet EvF has two probes, each with a 0.3mm tip, covering the force ranges:

- 0.1 – 7g, (exceeding the 6g filament)
- 0.05 -3g, (measuring below the 0.07g filament)

Changing the probe takes seconds and the instrument automatically rescales.

MouseMet EvF is light (230g) and easy to hold, with big handles and a gentle, rotary action. It is suitable for use with most existing runs or with MouseMet runs. Unit price includes 2 probes and a basic calibration kit.

And this calibration arm can also be used to compare MouseMet with your existing filaments
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Prices (ex-works):

MouseMet EvF:	£990
2 runs and stand:	£350
Pack of 4 probes:	£160
Extended calibration pack:	£150

Fast and comfortable to use

Just bring the probe into contact with the mouse's paw and twist the handles. With elbows on the bench, this movement is intrinsically comfortable and stable, reducing fatigue over long testing sessions, and the low initial contact force (<0.05g) helps avoid "touch-on" responses. The greater the twist, the higher the force.
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At threshold, simply withdraw the probe from the foot, removing the force and press the green button; the peak is then displayed on the screen, along with a graph of the force ramp, with a guide line at a rate of 1g/sec.

The probe is flexible (it's similar to a 2g von frey filament), so hand tremor doesn't "scratch" the tip across the surface of the foot. This helps prevent "touch-on" responses

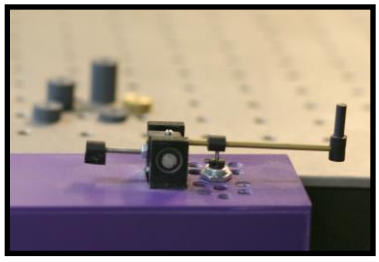
Calibrated dynamically

Most force transducers are calibrated statically by applying a range of forces and recording the errors.

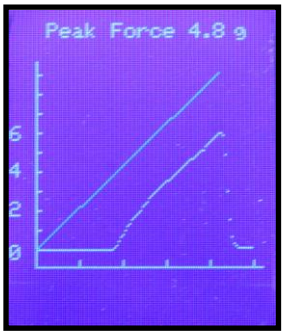
But the force on a mouse's foot is applied dynamically, ramping up to the threshold and recording the peak at the instant the mouse lifts its foot.

So, in addition to static calibration, every MouseMet EvF is checked on a unique calibration rig called MouseCal

MouseCal was designed and built by Topcat Metrology to replicate the way a mouse lifts its foot, and to measure the force at that instant. It is maintained in Topcat's laboratory to provide a reference for calibration and is checked regularly against known masses and a set of von Frey filaments.



The MouseCal rig



A typical test

Prices and specifications subject to change without notice

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