



Topcat Metrology Ltd

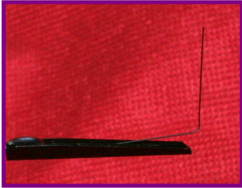
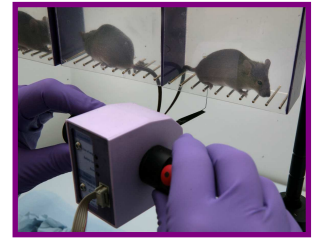


"Looking behind the measurement"

www.mousemet.com www.topcatmetrology.com

MouseMet: Electronic von Frey for Mice Complete System: £1950

The transducer, uniquely in this market, has an appropriate force range for mice (0.1 - 7gf) and is "soft" to eliminate the effects of hand tremor. The action is rotary: with elbows on the bench, twist the black handles to apply the force: much easier than trying to raise your hand smoothly, under the cage and without support.



The probe tip is 0.3mm diameter, flexible (like a von frey filament), and with a "soft-start" over the first 0.5gf to reduce touch-on responses.



The display module is simple and easy to use, showing a graph of force against time for the last test (with a help-line at a rate of 1gf/sec) and a readout of the peak force.



The runs (in groups of 2, 4 or 6) are "one-dimensional", encouraging the mouse to sit sideways to the operator, on bars spaced to maximise the plantar area available. The stands are height adjustable, allowing the operator to sit with elbows comfortably supported on the bench.



Prices

System: **£1950**

- MouseMet transducer
- Soft-Start probe
- Display module (requires 2 PP3 cells)
- 2 runs and stand

Accessories

- 2 runs with stand: **£250**
- 3 SoftStart probe tips: **£150**
- 4 NiMH cells and charger **£100**



Specifications

Force range: 0.1-7gf
 Tip diameter: 0.3mm
 Power supply: Two PP3 9V batteries
 Battery life: approx 8 hours
 Transducer weight: 170g

Advantages:

- Appropriate force range for the test, and insensitive to hand tremor.
- Faster than filaments, with a threshold for each test (rather than requiring several tests and the up-down calculation).
- Immediate visual check of the force ramp.
- Constant probe area (unlike filaments where the contact area is different for each one).
- More robust than filaments (which give an artificially low threshold force if bent from previous ill treatment).

Research Publications:

Deuis JR et al (2013) <http://dx.doi.org/10.1016/j.pain.2013.05.032>

Deuis JR et al (2014) <http://dx.doi.org/10.1093/neuonc/nou048>

Deuis JR et al (2015) <http://pubs.acs.org/doi/abs/10.1021/acschemneuro.5b00113>

Patents: GB2489793, GB2489933, US 8,944,008 B2 and European Application 12161418.4

Full Validation: Please see our website: www.mousemet.co.uk/validation

All prices are ex-works. Prices and specifications subject to change without notice

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