

Electronic von Frey

Features-

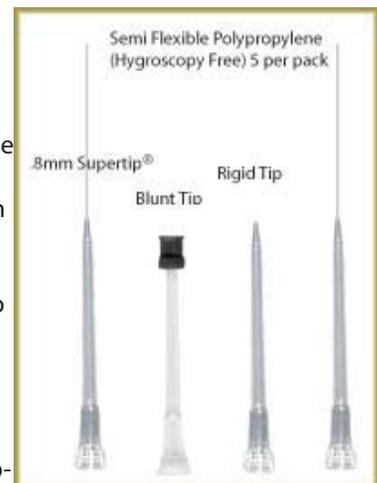
- Mice - Rats - Large Animals - Humans
- MRI Compatible option
- Rigid tips up to 800 Gr.
- "Supertips™" 15 up to 75 Gr.
- Independence from Hygroscoy and Temperature



When research calls for testing various levels of pain and sensory reaction on test subjects for assessing mechanical allodynia the IITC Life Science Electronic von Frey Anestheisometer is the most reliable and validated system for your research purposes.

Depending on the test and type of study IITC's Electronic von Frey allows researchers to be able to use various tips/hairs. When measuring and seeking pain threshold readings IITC recommends using the rigid tips for pain threshold studies and when studies require sensory testing reactions the IITC patented "Supertips™" (flexible von Frey hairs) are recommended.

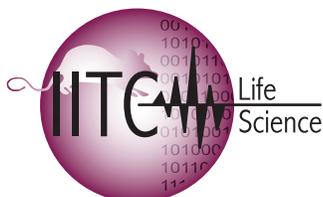
IITC also supplies with the Supertip hairs kit, 2 unique type of tips standard - 1. Blunt tips which allow you to seek blunt forces, 2. Semi-flexible tips which allow the brush stroke test to be performed. All of the various tips/hairs can be used on any one of the three probes that IITC offers for the Electronic von Frey. All versions of tips can be used on all test subjects from mice to humans. Except the Supertip hairs which are not used on large test subjects such as (dogs, horses, sheep, etc.). Our system is the first system introduced to the market finally allowing researchers the ability to test and automatically record pain threshold values in a clean, accurate and easy to use compact system. The IITC hairs are unique in design - each hair has a uniform tip of .8mm in diameter, eliminating the possibility of false readings that may occur due to the varying hair thickness when applied to a test subject.



The systems are supplied with either a 90 (mice), 800 (rats and human) or 1000 (large animals) gram probe. When multiple test subjects will be part of a study, individual probes for said test subject as written above can be ordered with one electronic unit. The IITC 90 gram probe allows testing from .01 grams up to 90 grams, .1 grams up to 800 grams for rats and humans and .1 gram up to 1000 grams for dogs and other large test subjects.

The systems will allow you to measure, store and display your test readings in grams based upon the amount of pressure applied. Manually calculating results is no longer required with the IITC Electronic von Frey.

Testing is simple, choose one of the supplied tips, place on probe tip; apply pressure probe to test subject, upon reaction



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Electronic von Frey

the unit will display and store your reading in grams, an easy, quick form of testing for all pain studies.

The internal load cell of the IITC Electronic von Frey is attached to the small tip, this is the central element in the system and connects to the electronic system allowing your results to be digitally recorded.



All Electronic von Frey systems are factory calibrated and do not require any type of constant calibration, adjustment or separate calibrator to be purchased. A 5 gram weight is supplied if and when needed to 0 the system.

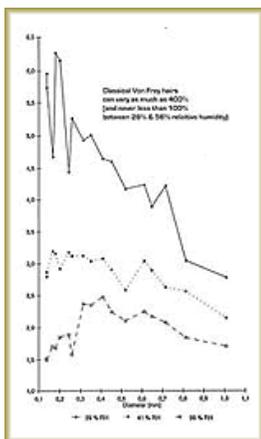
The optional analog output cable supplies a pressure analog output voltage (mV range) exactly proportional to the applied pressure. The signal is free floating and can be used on both chart recorders and/or AD converters.

Our system is an easy, user friendly system which was developed to replace the traditional hairs but at the same time enabling researchers to not only test sensory but pain thresholds on any test subject with one system.

The IITC system enables researchers to have up to 5 test disciplines with one electronic unit -
 - Electronic von Frey - Plethysmometer - Randall Selitto - Grip Strength - Rodent Pincher

What are "Supertips™"

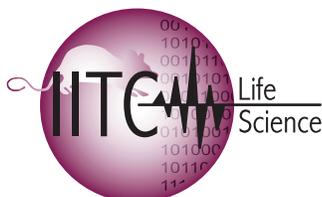
As reported in papers varying probe diameter on von Frey hairs is a serious issue. The IITC 15 patented "Supertips™" have a uniform dip diameter of .8mm. This is a unique feature available only with the IITC Electronic von Frey Anesthesimeters. Tip size no longer affects pain or pressure thresholds and your results are finally comparable. Each tip can be ordered individually on a need to use basis.



The IITC Electronic von Frey eliminates poor data collection due to the hygroscopic nature of von Frey hairs (it is proven that relative humidity can change the force by more than 100% between 28-52% relative humidity change). Only an accurate electronic readout can show the actual force; not a number as with the classic von Frey hair handles. Bending of the hairs at various degrees can change the force by 20-30% in every case; but this is only visible with an electronic readout system. The natural limiting of force with flexible hairs is of great advantage. This instrument eliminates the up/down method of finding threshold unnecessary.

One year warranty
 120/240V
 CE

Part#	Description
2390	Electronic von Frey Anesthesimeter - 90 gr probe - Rigid Tips
2391	Electronic von Frey Anesthesimeter - 800 gr probe - Rigid Tips
2392	Electronic von Frey Anesthesimeter - 90 gr probe - Rigid Tips and 15 Supertips
2393	Electronic von Frey Anesthesimeter - 800 gr probe - Rigid Tips and 15 Supertips
23931	Electronic von Frey Anesthesimeter - 1000 gr probe - Rigid Tips
2394	Probe only - 90 gr
2395	Probe only - 800 gr
2396	Probe only - 1000 gr



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