Analgesy-Meter
Cat. No. 37215

General

The 37215 is the up to date version of the classical 7200 paw pressure test which, since 1965, in a number of academic and industrial laboratories, is helping to perform a rapid precise screening of analgesic drugs.

The force is applied to the animal’s paw, which is placed on a small plinth under a cone-shaped pusher with a rounded tip.

The 37215 features a low voltage synchronous motor and conforms the CE rules.

The operator depresses a pedal switch to start the mechanism which exerts the force.

When the rat struggles, the operator releases the pedal and reads off the scale the force at which the animal felt pain.

The standard 37215 can be convently used with mice. However, a dedicated model is also available, when lower pressure (50%) is desirable, model 37216, which includes a special chisel-shaped pusher.

Main Features

- Same instrument, three force ranges (from 0 to 250, 500, 750 g)
- Simple and reliable: no calibration needed!
- Classic method since the 1960s: hundreds of papers published!
**Principle of Operation**

The force applied to the paw by the plinth, increases at a constant rate, thus enabling perfect reproducible measurements to be made. The motor stops immediately the pedal is released.

After each test the slide should be returned to its starting point by lifting it and pushing it to the left. The force is measured on the scale calibrated in 10-gram steps, by a pointer riveted to the slide. The scale can be multiplied by 2 or 3, by placing on the slide one or two discs provided with the standard package.

**Data Acquisition**

The 37215 incorporates an optical switch, to enable the connection to the optional Multifunction Printer Cat. 2600, via the dedicated cable 2610-D. The Multifunction Printer is a microprocessor controlled device, designed to acquire data from 6 independent channels (each Analgesy-Meter requires 1 channel).

The data, stored in the 2600 internal memory and shown on its graphic display, can be printed out in real time and/or routed to the PC via the S2050 CUB Software Package included with the 2600.

**Ask for details!**

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**Specifications:**

- **Power Requirements:** 115 or 230V, 50/60Hz, 15W max.
- **Start / Stop:** by pedal switch
- **Force Range:**
  - 37215: 0 to 250, 500, 750 grams
  - 37216: 0 to 125, 250, 375 grams

**Physical:**

- **Dimensions:** cm 40 x 16 x 14
- **Packing:** cm 55 x 45 x 36
- **Weight:** 2.1Kg
- **Shipping Weight:** 5.0Kg approx

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**Ordering Information**

- 37215: **ANALGESY-METER**, complete with following standard accessories:
  - Instruction Manual (on USB key)
  - Pedal Switch, complete with cable
  - Set of discs for additional weight
  - Plinth
  - Standard Pusher *
  - E-WP008 Mains Cord

* The pusher can be ordered in special material and/or shapes, according to customer’s requirements.

- 37216: **ANALGESY-METER**, low-pressure model, suitable for mice, complete with chisel-shaped pusher 37215-326

**Bibliography**

**METHOD PAPER**


**REFERENCE TO UB ANALGESY-METER (RAT)**

- L. Ferrari et alia: “Role of Nociceptor αCaMKII in Transition from Acute to Chronic Pain (Hyperalgesic Priming) in Male and Female Rats” J. Neuro-science 33 (27): 11002-11011, 2013
- D.A. Andersson et alia: "TRPA1 Has a Key Role in the Somatic Pro-Nociceptive Actions of Hydrogen Sulfide" PLoS ONE 7(10): e46917, 2012

**REFERENCE TO UB ANALGESY-METER (MOUSE)**


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**Specifications:**

- **Power Requirements:** 115 or 230V, 50/60Hz, 15W max.
- **Start / Stop:** by pedal switch
- **Force Range:**
  - 37215: 0 to 250, 500, 750 grams
  - 37216: 0 to 125, 250, 375 grams

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- **Dimensions:** cm 40 x 16 x 14
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