

Plethysmometer

Cat. No. 37140

General

In research on rheumatoid arthritis, the central development of oedema, and its modifications by pharmacological processes, it has proved of great value to measure inflammatory processes in the rat paw.

Our **Plethysmometer 37140** displays the exact paw volume on the graphic LCD read-out. Small differences are detected by a transducer of original design.

The 37140 is provided with a pedal holding-command which freezes the reading, enabling the operator to concentrate its attention to the paw dipping.

The paw volume is shown on the multifunction graphic display in four digits, with 0.01 ml resolution. A zero key is provided to zero the meter before each measurement.



Now supplied with
both **RAT & MOUSE**
paw measuring cell !!

**FOR ACCURATE
MEASUREMENT OF:**

- RAT paw oedema
- MOUSE paw oedema

MICROPROCESSOR Controlled Instrument. Main Features:

- Computer compatibility : direct connection to PC (via the 52050 SOFTWARE INCLUDED)
- Read-out : multifunction graphic display
- Print-out : by optional thermal MiniPrinters 7145

Volume Measuring Water Cell

The measuring cell consists of two vertical interconnected Perspex tubes; the animal paw is dipped in the larger tube to measure water displacement. A smaller diam. tube is also available for measuring the mouse paw.

The smaller diam. side tube contains the transducer which measures the conductance between two vertical wire electrodes, proportional to the water level and hence to the displaced volume.

Data Acquisition

The 7140 Plethysmometer is microprocessor controlled, featuring direct PC output. Internally-stored data can be routed to the PC serial (RS232) or USB port (via adaptor).

Communication is managed by the dedicated Software Cat. 52050-02, a Windows® based Data Acquisition Software Package.

The 52050-02 enables the data storage into individual files, ready to be easily managed by most statistical analysis packages available on the market.

Ask for details!

Ordering Information

37140	PLETHYSMOMETER , package including:-
7141	Electronic Block
7152	Standard Water Cell, diam. 1.8 cm
7186	Mouse paw tube, diam. 1.3 cm
7153	Conductance Transducer
7154	Water Reservoir
7155	Calibration Probes (0.1, 0.2, 0.5, 1, 2, 4ml)
7160	Wetting Compound, 100ml bottle
7161	Dust Cover for 7152 and 7156 Cells
7165	Connection tube (cell-reservoir & drain vessel)
7166	1.5 mm Allen Wrench
7169	Dust Cover for 7151 Electronic Block
37215-303	"Hold" Pedal Switch
52050-02	CUB Dedicated Software
52010-320	USB to serial port converter
52010-322	Connecting cable 9 to 9 pin
4210	Three Claw Stand, 10mm diam. Upright
4003	Open Side Boss-Head

Optional

57145	Thermal Mini-Printer
37450-305	Thermal Paper Roll for 7145

Also Available

37140-25	Plethysmometer , complete with water cell diam. 2.5 cm & standard accessories
37140-35	Plethysmometer , complete with water cell diam. 3.5 cm & standard accessories

Other Available Water Cells

7157	Special Water Cell, diam. 2.5 cm, complete with 7153 and dust cover 7170
7159	Special Water Cell, diam. 3.5 cm, complete with 7153 and dust cover 7170

Physical

Weight	5.4 Kg
Shipping Weight	8.1 Kg approx.
Shipping Dimension	35x55x45 cm
Power:	Universal input 85-264 VAC, 50-60 Hz

Bibliography

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