



# Plethysmometer

Cat. No. 7140

## 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 7140** displays the exact paw volume on the graphic LCD read-out. Small differences are detected by a transducer of original design.

The 7140 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.

**Note:** Stand and clamp illustrated in the picture are not included.



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 MiniPrinter 7145

## Measuring Water Cell

The measuring cell consists of two vertical interconnected Perspex tubes; the animal paw is dipped in the larger tube to measure displacement. A smaller tube is also included in the standard package, to be replaced on the water cell for measuring the mouse paw.

The smaller tube contains the transducer which measures the conductance between two vertical wire electrodes, compensating changes in conductivity brought about by salinity and temperature alterations.

## 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

- 7140 PLETHYSMOMETER**, standard package including:-
- 7141** Electronic Block
  - 7152** Standard Water Cell, diam. 1.8 cm
  - 7186** Mouse paw tube, 1.3 cm diam.
  - 7153** Conductance Transducer
  - 7154** Water Reservoir
  - 7155** Set of Calibration Probes (0.1, 0.2, 0.5, 1, 2, 4ml), for all cells
  - 7160** Wetting Compound, 100ml bottle
  - 7161** Dust Cover for 7152 and 7156 Cells
  - 7165** Tube for branching cell to reservoir & drain vessel
  - 7166** 1.5 mm Allen Wrench
  - 7169** Dust Cover for 7151 Electronic Block
  - 7172** "Hold" Pedal Switch
  - 52050-02** CUB Dedicated Software
  - 52010-320** USB to serial port converter

**52010-322** Connecting cable 9 to 9 pin

Set of 2 fuses for either 115 VAC or 230 VAC mains

#### Optional

- 7145** Thermal Mini-Printer
- 37450-305** Thermal Paper Roll for 7145
- 4210** Three Claw Stand, 10mm diam. Upright
- 4003** Open Side Boss-Head

#### Also Available

- 7140-25 Plethysmometer**, complete with water cell **diam. 2.5 cm** & standard accessories
- 7140-35 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
- 7170** Dust Cover for 7157 and 7159 Cells

#### Physical

- Weight 3.50 Kg
- Shipping Weight 6.00 Kg approx.
- Shipping Dimension 40x39x30 cm
- Power: 115 or 230 V, 50/60 Hz, 15 W max.

### Bibliography

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