

Model L-100

Non-Invasive, Universal Multimeter



Ludlum Measurements, Inc.

Model L-100 Introduction

The Ludlum Model L-100 PTW Universal Multimeter is designed for the QC evaluation of a wide variety of x-ray machines, including standard Radiographic, Fluoroscopic, Portable, Mammography, and CT, as well as Dental and Panoramic units. The automatic features of the L-100 measures peak kV, exposure time and dose output of the X-ray unit quickly and easily. Simply position the L-100 so that it is located within the radiation beam of the X-ray unit. The display will show the measured kV, exposure time, and dose of the x-ray equipment being evaluated.



There is also an analog output which connects to an oscilloscope to view the voltage waveform when needed.

Common Specifications

Part Number: 99-9200

Irradiation Time: 0.3 milliseconds – 999 seconds

Digital Resolution: 300 milliseconds

Voltage: (22 – 150) kV

Digital Resolution: +/- 0.1 kV

Energy Dependence: less than +/- 2 %

Reproducibility: less than +/- 0.5%

Operating Temperature: 15 to 35 °C (59 to 95 °F)

Dimensions: 4.5 x 9.5 x 15.5 cm (1.7 x 3.8 x 6.1 in.) (H x W x L)

Weight: 750 g (1.7 lb)

OPTIONS

Model L-25018 Oscilloscope Cable, 10 m Part Number: 99-9201

Model L-522038 Soft Carrying Case, Part Number: 99-9202

HVL Filters Plates

Standard and Ultra High Purity HVL Filter Plates, used to determine if there is sufficient inherent filtration in the x-ray beam to remove the damaging lower energy radiation being emitted from the x-ray tube.

Model L-430 Part Number 99-9400 Standard Purity Aluminum Filter Set
Specifications: Set of eleven - 10 cm x 10 cm plates in the following thicknesses: five 1.0 mm plates; two 0.5 mm plates; and four 0.1 mm plates

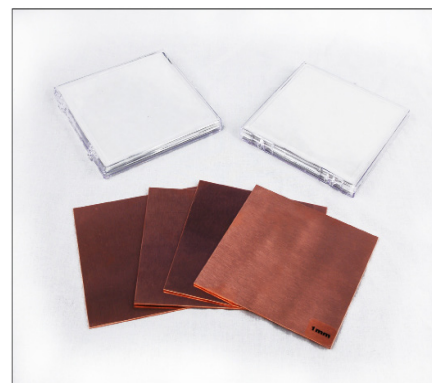
Model L-434 Part Number 99-9401 Ultra High Purity Aluminum Filter Set (for Mammography Applications)
Specifications: Set of six - 10 cm x 10 cm plates in 1 mm thickness: 1 mm

Model L-431 Part Number: 99-9402 Standard Purity Copper Plates (for higher energy generators)
Specifications: Set of ten – 10 cm x 10 cm plates in the following thicknesses: four 1.0 mm plates; two 0.5 mm plates; and four 0.1 mm plates

OPTIONS: Model L-431-20 Part Number 99-9435 Set of twenty plates: 10 cm x 10 cm; 0.5 mm thickness

Model L-431-30 Part Number 99-9433 Set of thirty plates: 10 cm x 10 cm; 0.5 cm thickness

Other custom sizes and quantities available upon request.



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Note: specifications subject to change without notification. We are not responsible for errors or omissions.

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