

GEIGER MULLER TUBE

Halogen quenched liquid sample tube with a glass body. The liquid sample (approx. 5ml) is contained within the tube which is sensitive to beta and gamma radiation.

P73-1230 Geiger Muller Tube, ZP1530



P73-1230

UNIVERSAL CASTLE

For use with G-M tubes. Supplied complete with cylindrical extension, a circular plate with screws, a ring adaptor with screws and aluminium shelves.

P73-1240 Universal Castle

ABSORBERS SET

Set of 24 different radioactive absorbers of various materials, from tissue paper to 12mm thick lead. Used for comparing and calibrating the penetration strengths of various sources. Each absorber is marked with its density (g/cm^2). Active area 60 x 60mm. Complete with absorber and source support.

Set comprises: 1 tissue on frame, $1.82\text{mg}/\text{cm}^2$, 7 aluminium foil on frame, from 2.94 to $77\text{mg}/\text{cm}^2$; 9 aluminium, from 120 to $789\text{mg}/\text{cm}^2$; 7 lead, from 1.87 to $14.5\text{g}/\text{cm}^2$.

Three plastic plates, of different orifices, are also supplied for supporting the lead plates in castles.

Supplied in a sturdy container with moulded dividers. Dimensions: 230 x 190 x 80mm. Weight: 2kg.

P73-1250 Absorbers set, with support



P73-1250

COMPLETE STUDENT G-M PROBE ASSEMBLY

Mica end-window, halogen quenched G-M tube. With built-in 10-position sample holder and BNC connector. For use with less radioactive samples. Tube is removable. Supplied with one tray.

Technical Data:

Probe diameter:	25mm
End-window:	Mica $\leq 2\text{mg}/\text{cm}^2$
Operating Voltage:	900V
Deadtime:	$150\mu\text{s}$

P73-1260 Complete Student G-M Probe Assembly



P73-1260

COMPLETE G-M PROBE ASSEMBLY

Similar to **P73-1260** above but with larger mica end-window. Allows for greater photon efficiency with low activity samples. With built-in 10-position sample holder and BNC connector. Tube is removable. Supplied with one tray.

Technical Data:

Probe diameter:	35mm
End-window:	Mica $\leq 2\text{mg}/\text{cm}^2$
Operating Voltage:	900V
Deadtime:	$200\mu\text{s}$

P73-1270 Complete G-M Probe Assembly



P73-1270

INTRODUCTORY NUCLEAR LAB SYSTEM

A portable battery powered analogue ratemeter system complete with G-M detector and stand, alpha, beta and gamma radioisotope sources, 20-piece absorber set, serial cable and software for connecting to PC. An excellent system for demonstrating the characteristics of radiation. Use with PC for group displays. System comprises:

- ST-250 Ratemeter with PC interface and RADEM software (**P75-1050**)
- Complete detector assembly with G-M25 probe, stand and cable (**P73-1260**)
- Calibrated Absorber Set, 20 absorbers 5-7,000mg/cm² (**P75-1250**)
- Serial Cable for PC
- Set of three sources, alpha, beta and gamma, solid discs (**P73-1100**)
- Student Lab Manual
- Instructors Manual

P75-1150 Introductory Nuclear Lab System

ADVANCED SPECTROSCOPY LAB FOR PC

Designed for conducting a wide selection of spectroscopy experiments, the Advanced Lab features the ICS-PCI Integrated Computer Spectrometer for IBM compatible PCs. This plug-in card contains a computer controlled amplifier, high voltage, 1,024 channel MCA with 4 storage buffers, upper and lower level discriminators and multichannel scaling for half-life and decay studies. Supplied with MCA software with ISOMATCH peak identification and a lab manual of experiments in gamma spectroscopy.

System comprises:

- ICS-PCI Integrated computer spectrometer for PC with MCA software
- SPA 38 Complete scintillation probe with detector, stand, shield and cables (**P73-1280**)
- Set of eight gamma sources, including "unknown" (**P73-1150**)
- Student Lab Manual
- Instructors Manual

Technical Data:

Physical: 1,024 MCA with data memory, LLD and ULD
 ADC: Wilkinson type, 80MHz clock with computer selected conversion gain of 256, 512 or 1,024 channels
 High Voltage: Computer controlled, 0-1,280V
 Modes: MCA, MCS

P75-1200 Advanced Spectroscopy Lab for PC

ABSORBERS, SET OF 20

Calibrated absorber set, 20 absorbers 5-7,000mg/cm² range. Materials include, lead (4), plastic (2), aluminium (10), polythene (2) and aluminium foil (2). Fully labelled in compartmented wood storage box.

P75-1250 Absorbers, set of 20



P75-1150



P75-1200



P75-1250