

Model 43-78-1 Beta Sample Counter

Radiation Detection for a Safer World



Ludlum Measurements, Inc.



Part Number: 47-2307

Specifications

INDICATED USE: large sample beta counting

SUGGESTED INSTRUMENTS: Models 2000, 2200

SAMPLE SIZE (Maximum): 12.7 x 0.46 cm (5 x 0.18 in.) (Dia x L)

SAMPLE HOLDER: anodized aluminum tray

SHIELDING: none

SCINTILLATOR: plastic adhered to a 0.6 cm (0.25 in.) light pipe

PHOTOMULTIPLIER TUBE: 12.7 cm (5 in.) diameter

OPERATING VOLTAGE: 500–1200 volts

WINDOW: windowless

EFFICIENCY (4 π): 40%–⁹⁰Sr⁹⁰T; 12%–¹⁴C; 35%–⁹⁹Tc

BACKGROUND: beta gamma: 500 cpm or less

SIZE: 19.1 x 31.8 cm (7.5 x 12.6 in.) (Dia x L)

WEIGHT: 6.8 kg (15 lb)

Available

Model	Sample Size (Dia x Depth)	Part Number
Model 43-78	12.7 x 0.46 cm (5 x 0.46 in.)	47-2180
Model 43-78-1	12.7 x 0.46 cm (5 x 0.46 in.)	47-2307
Model 43-78-2	7.6 x 0.46 cm (3 x 0.18 in.)	47-2620
Model 43-78-3	12.7 x 0.46 cm (5 x 0.46 in.)	47-2762