

Model 43-78-2

Alpha/Beta Sample Counter

Radiation Detection for a Safer World



Ludlum Measurements, Inc.



Part Number: 47-2620

Specifications

INDICATED USE: sample alpha/beta counting up to
SUGGESTED INSTRUMENTS: Models 2929, 3030E
SAMPLE SIZE (Maximum): 7.6 x 0.46 cm (3 x 0.18 in.) (Dia x L)
SAMPLE HOLDER: anodized aluminum tray
SHIELDING: 1.9 cm (0.75 in.) thick lead
SCINTILLATOR: ZnS (Ag) adhered to plastic scintillation disk
PHOTOMULTIPLIER TUBE: 7.6 cm (3 in.) diameter
HIGH VOLTAGE: nominally 800 to 1200 volts
WINDOW: 0.4 mg/cm²
EFFICIENCY (4 π): 37%—²³⁹Pu; 37%—⁹⁰Sr/⁹⁰Y
BACKGROUND: alpha - 7 counts per 10 minutes; beta - 100 cpm or less
SIZE: 15.2 x 29 cm (6.0 x 11.4 in.) (Dia x L)
WEIGHT: 32 kg (70 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