

# Model 43-78 Alpha Sample Counter

*Radiation Detection for a Safer World*



Ludlum Measurements, Inc.



Part Number: 47-2180

## Specifications

**INDICATED USE:** large sample alpha 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:** ZnS(Ag) 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 $\pi$ ):** 37%–<sup>230</sup>Th; 37%–<sup>239</sup>Pu

**BACKGROUND:** alpha: 3 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