

# Model 43-78-2

## Alpha/Beta Sample Counter



Ludlum Measurements, Inc.



### Specifications

Part Number: 47-2620

**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/cm<sup>2</sup>

**EFFICIENCY (4 $\pi$ ):** 37%–<sup>239</sup>Pu; 37%–<sup>90</sup>Sr/<sup>90</sup>Y

**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

Ludlum Measurements, Inc. P.O. Box 810, Sweetwater, Texas 79556

Web: <http://www.ludlums.com> Tel: 800-622-0828 / 325-235-5494 / Fax: 325-235-4672 / Email: [sales@ludlums.com](mailto:sales@ludlums.com)

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

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