

# Model 180-8

## Shielded Sample Holder



Ludlum Measurements, Inc.



Part Number: 47-1549

### Specifications

**INDICATED USE:** low background sample counting

**DETECTOR:** end window halogen quenched GM (others available)

**WINDOW:**  $1.7 \pm 0.3$  mg/cm<sup>2</sup> mica

**WINDOW AREA:** active 6 cm<sup>2</sup>; open 5 cm<sup>2</sup>

**EFFICIENCY (4 $\pi$ ):** 2% for <sup>14</sup>C, 10% for <sup>90</sup>Sr/<sup>90</sup>Y, 7% for <sup>239</sup>Pu

**SENSITIVITY:** 2100 cpm/mR/hr (<sup>137</sup>Cs gamma)

**ENERGY RESPONSE:** energy dependent

**BACKGROUND:** 14 cpm with end window GM

**DEAD TIME:** 250  $\mu$ s

**SAMPLE SIZE:** maximum 5.1 cm (2 in.) diameter

**SAMPLE TRAY:** selectable spacing of 0.32 cm (0.125 in.), 0.64 cm (0.25 in.), 1.3 cm (0.5 in.), 2.5 cm (1 in.), or 5.1 cm (2 in.) from detector

**OPERATING VOLTAGE:** 900 volts

**CONSTRUCTION:** 0.3 cm (1.5 in.) thick painted lead housing

**SIZE:** 24.1 x 37.3 cm (9.5 x 14.7 in.) (Dia x L)

**WEIGHT:** 107 kg (235 lb)

**SHIPPING WEIGHT:** 125 kg (275 lb)

### SUGGESTED INSTRUMENTS:

**Model 2000** (Part Number 48-1648) General Purpose Scaler for sample counting

**Model 2200** (Part Number 48-1651) Scaler/Ratemeter for single channel analyzing, gross counting

Both of the above instruments support a wide range of external detectors.

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

April 2019