

# Model 44-110-2 Windowless Sample Counter Detector

*Radiation Detection for a Safer World*



Ludlum Measurements, Inc.



Part Number: 47-3678

INDICATED USE: low-energy alpha and beta sample counting

DETECTOR: windowless gas flow proportional

GAS FLOW: typically 3 L/min, detector equipped with 3.2 mm (0.125 in.) hose connection and two-position switch flow valve

EFFICIENCY ( $4\pi$ ): 14%— $^{63}\text{Ni}$ , 40%— $^{239}\text{Pu}$

BACKGROUND: < 100 cpm

OPERATING VOLTAGE: typically 1700-1900 Vdc

SAMPLE HOLDER: anodized aluminum tray with 2.5 cm (1.0 in.) diameter sample ring to allow for 2.5 or 5.1 cm (1.0 or 2.0 in.) diameter samples

SAMPLE SIZE (maximum): 5.1 x 0.9 cm (2.0 x 0.4 in.) (Dia x L)

COMPATIBLE INSTRUMENTS: Model 2200

CONNECTOR: Series "C"

CONSTRUCTION: aluminum housing with beige powder coat

TEMPERATURE RANGE: -20 to 50 °C (-4 to 122 °F)

SIZE: 15.2 x 11.4 x 23.6 cm (6 x 4.5 x 9.3 in.) (H x W x L)

WEIGHT: 1.5 kg (3.3 lb)