



Ludlum Model 44-11

Gamma Scintillation Detector

Indicated Use: High energy gamma detection, approximately 60 keV to 2 MeV range. The detector provides high sensitivity for surveying and pulse height discrimination for single-channel and multi-channel applications.

Scintillator: 2" diameter x 2" thick NaI (5.1 cm x 5.1 cm)

Photomultiplier Tube: 2" (5.1 cm) diameter

Sensitivity: Typically 900 cpm/ μ R/hr (137 Cs gamma)

Background: 9750 cpm

Energy Response: Energy dependent

Dynode String Resistance: 60 megohm

Construction: Aluminum housing with beige polyurethane enamel paint. Integral-line.

Suggested Instruments: General purpose survey meters, ratemeters, and scalars

Operating Voltage: Typically 500 - 1200 volts

Connector: Series "C" (others available)

Temperature Range: -4° F to 122° F
(-20° C to 50° C)

May be certified to operate from -4° F (-40° C) to 150° F (65° C).

Size: 2.5" diameter x 10.5" L
(6.4 cm diameter x 26.7 cm L)

Weight: 1.4 lbs (0.6



Ludlum Model 44-20

Gamma Scintillation Detector

Indicated Use: High energy gamma detection, approximately 60 keV to 2 MeV range. The detector provides high sensitivity for surveying and pulse height discrimination for single-channel and multi-channel applications.

Scintillator: 3" diameter x 3" thick NaI (7.6 cm x 7.6 cm)

Photomultiplier Tube: 3" (7.6 cm) diameter

Sensitivity: Typically 2700 cpm/ μ R/hr (137 Cs gamma)

Background: 23,000 cpm

Energy Response: Energy dependent

Dynode String Resistance: 60 megohm

Construction: Aluminum cap with Stainless Steel Body. Integral-line.

Suggested Instruments: General purpose survey meters, ratemeters, and scalars

Operating Voltage: Typically 500 - 1200 volts

Connector: Series "C" (others available)

Temperature Range: -4° F to 122° F
(-20° C to 50° C)

Size: 3.3" diameter x 11.3" L
(8.3 cm diameter x 28.7 cm L)

Weight: 3.7 lbs (1.7 kg)



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