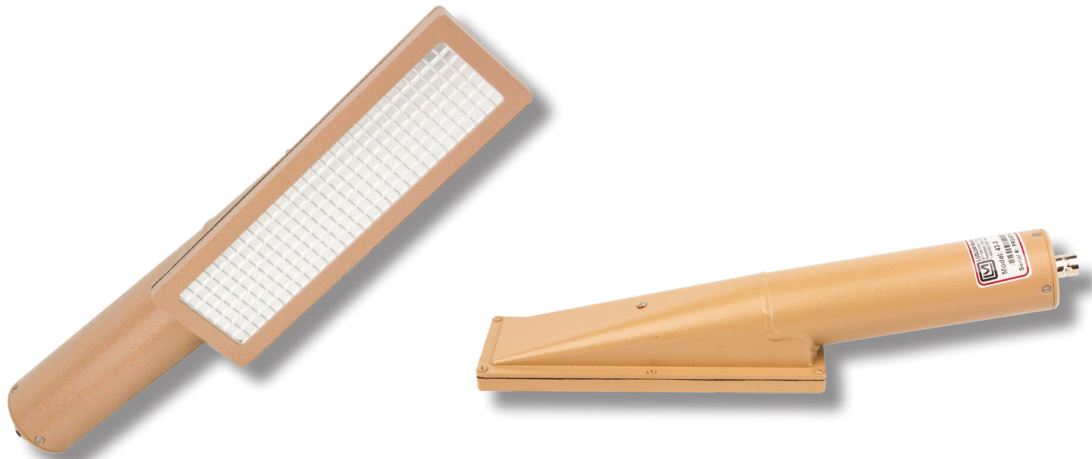


# LUDLUM MEASUREMENTS, INC.

## Model 43-5 Alpha Scintillation Detector



### Specifications

Part Number: 47-1521

**INDICATED USE:** alpha survey

**SUGGESTED INSTRUMENTS:** general purpose survey meters, ratemeters, and scalars

**DETECTOR TYPE:** ZnS(Ag) scintillator

**WINDOW:** typically 0.8 mg/cm<sup>2</sup> metalized polyester (1.2 mg/cm<sup>2</sup> recommended for outdoor use)

**WINDOW AREA:**

Active: 79 cm<sup>2</sup> (12.2 in<sup>2</sup>)

Open: 52 cm<sup>2</sup> (8.1 in<sup>2</sup>)

**PROTECTIVE SCREEN:** 1.27 mm (0.050 in.) thick aluminum, 5.1 mm (0.2 in.) square openings, 66% open

**EFFICIENCY (4π):** <sup>239</sup>Pu: 13%

**TYPICAL BACKGROUND:** 3 cpm or less

**DETECTOR UNIFORMITY:** 10% or less from average reading

**PHOTOMULTIPLIER TUBE:** 38 mm (1.5 in.) diameter, magnetically shielded

**OPERATING VOLTAGE:** typically 500 to 1200 V

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

**ENVIRONMENTAL RATING:** IP rating of 63

**CONNECTOR:** series "C", unless specified otherwise

**CONSTRUCTION:** aluminum with beige powder coating

**SIZE (H x W x L):** 7.6 x 6.4 x 34.3 cm (3 x 2.5 x 13.5 in.)

**WEIGHT:** 0.9 kg (2 lb)

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

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