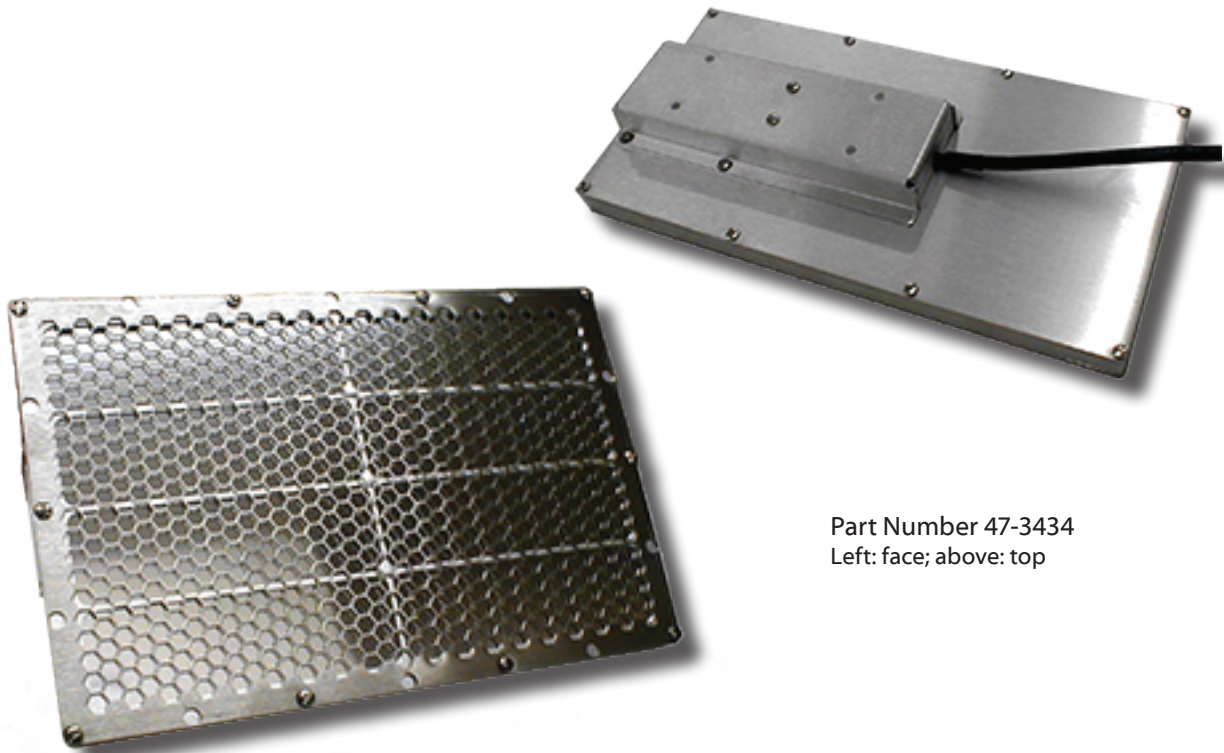


# Model 43-40-2

## Alpha Air Proportional Detector



Ludlum Measurements, Inc.



Part Number 47-3434  
Left: face; above: top

### Specifications

**INDICATED USE:** alpha survey

**WORKING ENVIRONMENT:** splashproof shields and desiccant-vented chamber for outdoor use

**SUGGESTED INSTRUMENTS:** Models 12, 16, 18, 2000, 2200, 2221, 2241, 2350

**DETECTOR TYPE:** air proportional

**WINDOW:** 0.4 mg/cm<sup>2</sup> aluminized metalized polyester

**WINDOW AREA:** 239 cm<sup>2</sup> (37.1 in<sup>2</sup>) active; 188 cm<sup>2</sup> (29.1 in<sup>2</sup>) open

**EFFICIENCY (4 $\pi$ ):** 10% for <sup>239</sup>Pu

**BACKGROUND:** 3 cpm or less

**OPERATING VOLTAGE:** altitude sensitive

sea level - 2050 volts

610 m (2000 ft) - 2000 volts

1524 m (5000 ft) - 1925 volts

2134 m (7000 ft) - 1875 volts

**COUNTER THRESHOLD SETTING:** typically -2 mV

**CONSTRUCTION:** anodized aluminum body with aluminum screen (79.1% open)

**CONNECTOR:** series "C" (others available)

**TEMPERATURE RANGE:** -20 to 50 °C (-4 to 122 °F), may be certified for operation from -40 to 65 °C (-40 to 150 °F)

**SIZE:** 3.3 x 12.4 x 24.9 cm (1.3 x 4.9 x 9.8 cm) (H x W x L)

**WEIGHT:** 1.13 kg (2.5 lb)