DeweyBurdPubEm Resource

From: Burrows, Ronald
Sent: Tuesday, September 16, 2008 9:26 AM
To: Burrows, Ronald
Subject: Ludlum Model 44-10
Attachments: image001.jpg; image002.jpg; image003.jpg; image004.jpg; image005.gif

MODEL 44-10 Gamma Scintillator

PART NUMBER:47-1540

The Model 44-10 is a 2" X 2" NaI(Tl) Gamma Scintillator that can be used with several different instruments including survey meters, scalers, ratemeters, and alarm ratemeters

INDICATED USE: High energy gamma detection
SCINTILLATOR: 2" (5.1 cm) diameter X 2" (5.1 cm) thick sodium iodide (NaI)Tl scintillator
SENSITIVITY: Typically 900 cpm/microR/hr (^{137}Cs)
ENERGY RESPONSE: Energy dependent
COMPATIBLE INSTRUMENTS: General purpose survey meters, ratemeters, and scalers
TUBE: 2"(5.1cm) diameter magnetically shielded photomultiplier
OPERATING VOLTAGE: Typically 500 - 1200 volts
DYNODE STRING RESISTANCE: 60 megohm
CONNECTOR: Series "C" (*others available*)
CONSTRUCTION: Aluminum housing with beige polyurethane enamel paint
TEMPERATURE RANGE: -4° F(-20° C) to 122° F(50° C)
May be certified to operate from -40° F(-40° C) to 150° F(65° C)
SIZE: 2.6" (6.6 cm) diameter X 11" (27.9 cm)L
WEIGHT: 2.3 lb (1.1kg)

Replacement Parts

Photomultiplier Tube
Scintillator

Ordering Info. **Model 44-10 Response Curve** **Manual**

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Page last updated: December 2000

Hearing Identifier: Powertech_Uranium_Dewey_Burdock_LA_Public
Email Number: 117

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Sent Date: 9/16/2008 9:26:24 AM
Received Date: 9/16/2008 9:26:25 AM
From: Burrows, Ronald

Created By: Ronald.Burrows@nrc.gov

Recipients:
"Burrows, Ronald" <Ronald.Burrows@nrc.gov>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

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