

**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 (<sup>137</sup>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)

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# Replacement Parts

## Photomultiplier Tube Scintillator

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[Model 44-10 Response Curve](#)

[Manual](#)

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*For comments or suggestions please contact webmaster at: [ludlum@ludlums.com](mailto:ludlum@ludlums.com)*

*Page last updated: December 2000*

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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

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image003.jpg	7502	
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MODEL 44-10 Gamma Scintillator







