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## Newsletter July 2010

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In this issue we feature some of our Radiation detection and monitoring products. For more details of these and other products please visit our web site at [www.alrad.co.uk](http://www.alrad.co.uk).

All products are available through **ALRAD ELECTRONICS** which is a trading division of Alrad Instruments Ltd. If you would like more information on any of the items featured in this newsletter either telephone **01635 30345** or email [sales@alrad.co.uk](mailto:sales@alrad.co.uk)

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### GM Counting Systems

Geiger-Müller Counting systems form the basis of nuclear science instruction. They are typically used for teaching modern physics, nuclear medicine, health physics, radiochemistry, biology and many applied nuclear sciences. Additionally, the systems may also be used for radiation monitoring, wipe testing and general surveying of radioactivity. Systems are supplied complete, including exempt quantity radioisotope sources, instructional material, cables and computer interfacing software.

Basic Nuclear Lab System



Introductory Nuclear Lab System



Intermediate Nuclear Lab System



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### Spectroscopy Systems

Spectroscopy systems provide a means of recording and analyzing the radiation emission from a wide variety of samples using a personal computer. Multichannel analyzer systems are available for both PC and Macintosh platforms and are supplied complete with acquisition and control software, detector, shield and sample stand assembly, a set of eight gamma sources and experiments manual. All Multichannel analyzers include Multichannel scaling (MCS) for half-life and other time related studies. Single channel analyzer systems are available for fixed window measurements such as wipe testing and medical applications. All systems may be configured with alternate detectors and lead shield assemblies.



Computer Spectroscopy System



Universal

## ST450 Scintillation Processor/SCA

The **ST450** Scintillation SCA provides a convenient interface between a scintillation detector and counter/timer for detecting gamma rays over a defined energy range. Front panel controls allow selection of an energy window so that only gamma-rays within a specific energy range are counted. The unit contains all of the necessary support for connecting a scintillation detector and includes high voltage and built-in preamplifier/amplifier.



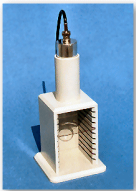
## ST250 Ratemeter



The **ST250** brings new concepts to the basic Ratemeter for nuclear radiation measurements. Light weight, rugged construction coupled with internal rechargeable batteries allows up to 8-hours of portable operation for surveying, instruction and training. Continuous bench top operation is accommodated with the AC charger supplied. Fully variable high voltage and advanced design will support many different types of Geiger Müller probes with operating voltage up to 1200 volts and count-rates up to 150,000 events per minute. Featuring a large precision meter, the ST250 offers dual scales for direct reading in both counts per minute and counts per second.

## Geiger-Müller Detectors

The Centronic range of Geiger Müller tubes from Alrad provides the user with the widest choice available from a single source. Many different types are manufactured and a programme of continuous development ensures the ability to meet new requirements and environmental conditions.



A complete detector assembly utilizing a 25 mm diameter end-windowed GM tube for Alpha, Beta, Gamma detection. The plastic stand includes a sample tray and features 10-slots with 1 cm spacing for performing inverse square law experiments and holding radiation absorbers. The GM probe is readily removed from the stand for safe storage, hand-held applications or replacement.

## RAS 20 Calibrated Radiation Absorber Set

This set of 20 calibrated radiation absorbers covers the range from 4.5 to 7400 mg/cm<sup>2</sup> and consists of aluminium, plastic and lead plates. The absorbers are 2.75 in<sup>2</sup> and are designed to fit all Spectrum Techniques detector stand assemblies. This set is suitable for absorption studies with Alpha, Beta and Gamma radiation.



Alrad Instruments Limited is a private British company that was established in 1970. *Member of UKIVA and PPMA* the Company has two trading divisions providing a variety of instruments and components for industrial, scientific and research applications. You can now find us on Facebook or follow us on Twitter. See our website home page for links.



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