The Thermo Scientific P 211 is designed so that zero neutrons are produced between pulses.

Thermo Scientific P 211 Neutron Generator

Pulsed accelerating voltage and ion source





The Thermo Scientific P 211 is designed such that both the accelerating voltage and ion source are pulsed. This assures that no neutrons are produced between pulses. This feature is critical for applications that depend upon measuring the variations of neutron populations following the source burst. One such application is the assay of transuranic materials in waste. The P 211 neutron tube was originally designed by Sandia National Laboratories and incorporates the Sandia-designed "Zetatron" neutron tube. Thermo Fisher Scientific is now the only manufacturer of the Zetatron neutron tube.

Features

- Neutron die-away measurements
- Pulses both accelerating voltage and ion source
- No background between pulses

Applications

- Transuranic waste assay
- Fissionable Materials



Thermo Scientific P 211 Neutron Generator

Technical Specifications	
Neutron Output	1.0E+06 n/pulse
Neutron Yield	1.0E+08 n/sec @ 100 Hz
Tube Lifetime	Up to 500 hours or greater
Pulse Rate	10 Hz, 50 Hz, 100 Hz, single shot
Pulse Width	~10 µsec
Safety Features	Keyed ON/OFF switch, User configurable interlocks
General Specifications	
Analysis Methods	Neutron die-away
Generator Characteristic	Pulsed output (no background between pulses)
Primary Elements Detected	U, Pu

About Thermo Fisher Scientific

Thermo Fisher Scientific (NYSE: TMO) is the world leader in serving science, enabling our customers to make the world healthier, cleaner and safer. With an annual revenur stream of more than \$9 billion, we employ 30,000 people and serve over 250,000 customers within pharmaceutical and biotech companies, hospitals and clinical diagnostic labs, universities, research institutions and government agencies as well as environmental and industrial processing settings. Serving our customers through two premier brands, Thermo Scientific and Fisher Scientific, we help solve analytical challenges from routine testing to complex research and discovery.

Thermo Scientific offers customers a complete range of high-end analytical instruments as well as laboratory equipment, software, services, consumables and reagents to enable integrated laboratory workflow solutions. Fisher Scientific provides a complete portfolio of laboratory equipment, chemicals, supplies and services used in healthcare, scientific research, safety and education. Together, we offer the most convenient purchasing options to customers and continuously advance our technologies to accelerate the pace of scientific discovery, enhance value for customers and fuel growth for shareholders and employees alike.

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