

Thermo Scientific miniGen Neutron Generator

The new design combines the accelerator head and control electronics into a single, compact unit.

The Thermo Scientific™ miniGen Neutron Generator is a derivative of the popular P 385 neutron generator in a more compact format, and with the new DNC III control interface. Compared to the P 385 5 neutron generator, the miniGen is 67% lighter and occupies 65% less space. All input and output signals are consolidated into two connectors on the front face.

The integrated front connectors have inputs for control of advanced functions such as a run timer, data logging, pulse counting, stand-by, and a facility interlock. The connectors have outputs for the source pulse and user adjustable Delay TTL signals.

The miniGen neutron generator is designed for longevity and lifetime cost savings. It operates with a graphical interface or text commands, and can be run on Mac or Windows™ PC and most other platforms.

An optional interface box is available to provide the complete set of individual control and safety connectors/features provided on larger neutron generators.



Features:

- Lightweight
- Compact
- Low power consumption
- Fully integrated
- Digital control
- Yield of 3×10^8 n/s

Benefits:

- Long tube life
- High output
- Modern digital control
- Excellent economics
- Ships as instrument or article

Applications:

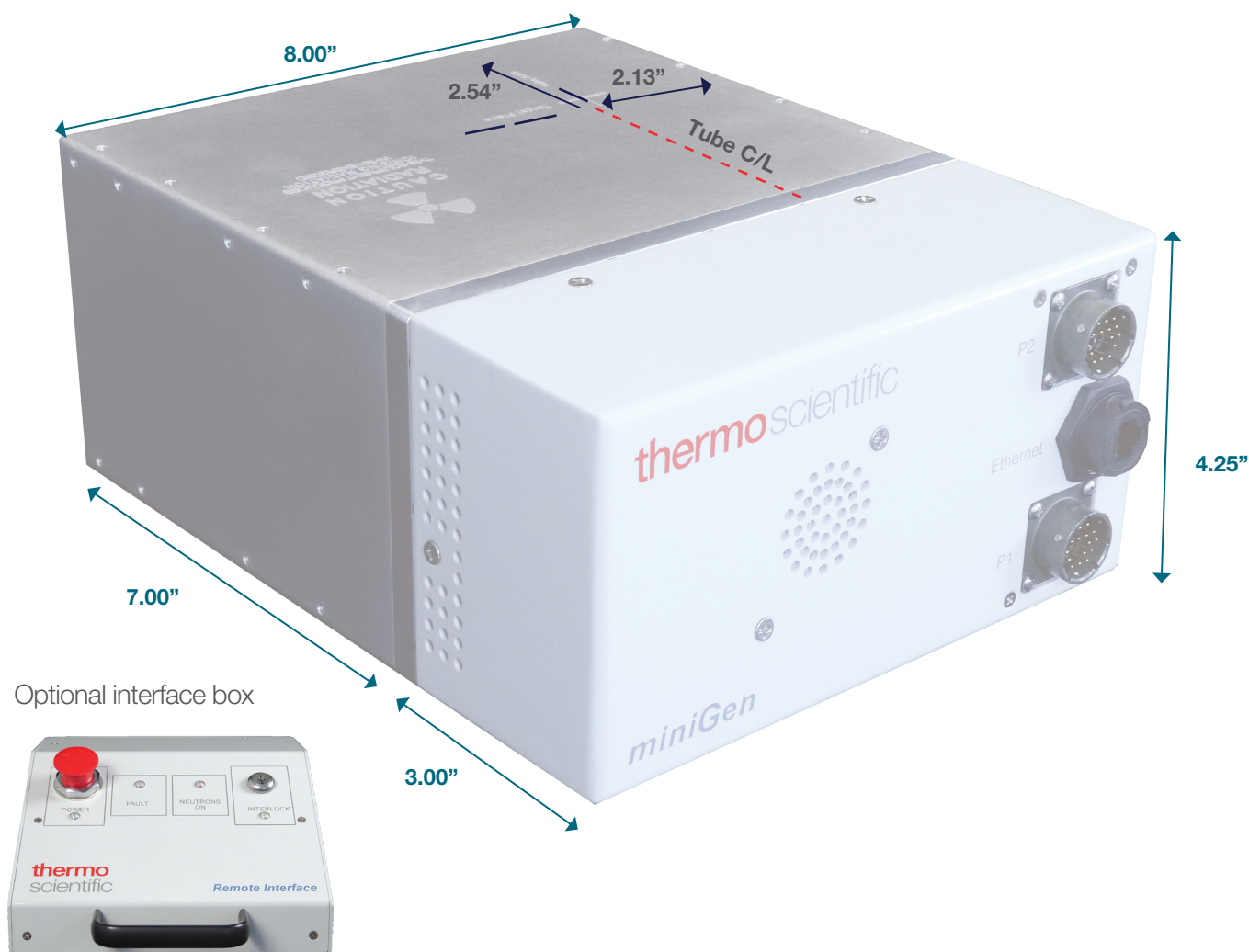
- Explosives detection
- Bulk material analysis
- WMD detection
- UXO analysis
- Contraband detection
- Vehicle/cargo inspection



Thermo Scientific miniGen Neutron Generator Technical Specifications

Specifications			
Nominal Max. Yield	3.0E+08 n/s, DT	Power Draw	45 watts
Accelerating Voltage	-60 to -130 kV	Control Software	Open-source text & GUI
Pulse Range	0.5 to 20 kHz	Operating Temperature	-10 to +50°C
Operating Range	20 to 70 μ a, 60 to 130 kV	Minimum Pulse Width Pulse Rise/Fall time	5 μ s ~2.0 / 0.5 μ s
Input Power	24 VDC	Duty Cycle	5% to 90%, Continuous
Control Interface	Ethernet (UDPv4) or RS-232	Weight & Size	15 pounds 4.25 x 8 x 10 in.
Typical Tube Life	1,500 hours @ 3E+08 4,500 hours @ 1E+08	Auxiliary Outputs	Source, Delay-1, Delay-2, Delay-3, Control

The miniGen neutron generator has a DOT Special Permit, which allows it to ship fully pressurized.



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