



Intermediate range neutron flux detectors

Key features

- Thermal neutron flux 2.5×10^2 nv to 2.5×10^{10} nv
- +/-1% linearity with flux
- Operating temperature 135° Celsius
- 10 year operation
- Seismically tested
- Market leading mineral Insulated cable
- On-load testing and support

Overview

Curtiss-Wright designs and manufactures a wide range of Neutron Flux Detectors (NFDs) for reactor safety systems, including those designed for equivalent 'fit form function' replacement of existing NFDs connected directly to your protection systems.

Our highly experienced design and technical specialists are based in our center of manufacturing excellence for NFDs located within our principle site in the United Kingdom. This center also provides single-site gamma and neutron generator testing, significantly reducing time to test, manufacture and deliver. Our design and manufacture capability are proven in the most difficult of environments, with our detectors having been operational in reactor cores for decades.

Whether it's supplying standard products or working together on updating a design to meet your needs, Curtiss-Wright's collaborative approach to programs and delivery will ensure you receive the systems you need, when you need them.

Specifications

Type	Boron coated
Thermal neutron flux	2.5×10^2 nv to 2.5×10^{10} nv
Neutron sensitivity	7.6×10^{-14} A/nv
Operating gamma flux	10 R/hr to 5×10^5 R/hr
Operating voltage DC	400 - 600V
Linearity	+/- 1% of flux
Response time	50ms (after 20% change in thermal neutron flux)
Material	Aluminum
Cable	Triaxial alumina mineral insulated
Diameter	Maximum 6 inches
Length	Up to 3 feet

United States of America

707 Jeffrey Way
Round Rock
Texas 78665-2408
USA

Tel: +1 512-434-2800

United Kingdom

Innovation House
Lancaster Road
Ferndown Industrial Estate
Wimborne
Dorset BH21 7SQ
UK

Tel: +44 (0) 1202 850 450

For more information

Web: cwic.curtisswright.com

Email: sales@nspi.curtisswright.com

About Curtiss-Wright

Curtiss-Wright Round Rock and Wimborne have worked with nuclear and industrial customers for over 60 years. We support customers across the world from facilities located in the US and UK. Our solutions are embedded in strategic national infrastructure and our people are active partners in customer programs that are focused on delivering advanced future nuclear and industrial capabilities.

Curtiss-Wright Corporation (NYSE: CW) is a global integrated business that provides highly engineered products, solutions and services mainly to Aerospace & Defense markets, as well as critical technologies in demanding commercial power, process and industrial markets. We leverage a workforce of approximately 8,600 highly skilled employees who develop, design and build what we believe are the best engineered solutions to the markets we serve. Building on the heritage of Glenn Curtiss and the Wright brothers, Curtiss-Wright has a long tradition of providing innovative solutions through trusted customer relationships.