

Thermo Scientific EPD Mk2+ combines unequalled radiological performance with advanced software and hardware features.

Thermo Scientific EPD Mk2+

Electronic Personal Dosimeter



Key Features

- Advanced radiological performance, 15 keV to 10 MeV, in a small, lightweight design
- Most complete dosimeter per IAEA Active Personal Dosimeter Intercomparison study IAEA-TECDOC-1564
- Multi-detector technology
- Excellent response to gamma, beta, and X-radiation
- Improved power management and battery monitoring
- Loud configurable audible alarm
- Excellent immunity to electromagnetic interference
- Enhanced, easy-to-read display with optional backlight
- Rugged battery cap and enhanced clip retention
- Improved reliability of LCD and case
- Additional software features provided
- Single AA battery powers the unit

The Thermo Scientific EPD Mk2+ builds upon the high performance of the original MK2 design, while providing enhanced features. The EPD Mk2+ is suitable for use as a single, stand-alone dosimeter, or as a component of a comprehensive dosimetry management system using our renowned hardware and software packages. The high quality of the Mk2+ provides low lifetime costs as well as advanced radiological performance.

The Thermo Scientific Mk2+ electronic personal dosimeter is perfect for organizations, utilities, agencies, and research laboratories to monitor employee dose and dose rates. The Mk2+ also boasts a ruggedized battery cap and an improved display.

The unit is powered by a single standard AA cell, either 1.5V alkaline or 3.6V Lithium Thionyl Chloride for maximum battery life. Pre-use integrity checks may be initiated over the IR (Infra-Red) communications link as part of the EPD Issue process of access control or dosimetry management systems. These checks include detector tests, battery test and battery voltage read. Display and function are controlled by a single button on the front of the unit, recessed to prevent inadvertent operation.

The Thermo Fisher Scientific EPD-N2 combines excellent photon dosimetry with full-spectrum neutron response, making this dosimeter ideal for those working in mixed neutron/gamma fields.

EPD™ -N2

Electronic Personal
Gamma-Neutron Dosimeter



Applications include:

- Reactors
- Spent fuel and glass waste transport
- Reprocessing and plutonium finishing
- MOX - plants
- Neutron source manufacture
- Many types of nuclear and university research
- Accelerator facilities
- Medical facilities
- Advanced radiological performance, 20keV-10MeV (photon), thermal (0.025eV) - 15MeV (neutron)
- Excellent performance in mixed gamma/neutron fields
- Multi-detector technology
- Excellent performance for low-dose measurements
- Direct display of Hp(10) for neutrons and for photons
- Outstanding immunity to electromagnetic interference
- AA battery, lithium or alkaline, interchangeable
- Compatible with current or upgradeable Thermo Scientific EPD readers, software and accessories

The EPD-G combines unequalled radiological performance for gamma dose and dose rate measurement with advanced software and hardware features.

Thermo Scientific EPD-G

Electronic Personal Dosimeter



Key Features

- Advanced radiological performance, 15 keV to 10 MeV, in a small, lightweight design
- Multi-detector technology
- Excellent response to gamma and X-radiation
- Improved power management and battery monitoring
- Loud configurable audible alarm
- Excellent immunity to electromagnetic interference
- Enhanced, easy-to-read display with optional backlight
- Rugged battery cap and enhanced clip retention
- Improved reliability of LCD and case
- Additional software features provided
- Compatible with Thermo Scientific EPD teleadapter for wireless operations
- Single AA battery powers the unit

The Thermo Scientific EPD-G is the gamma-only variant of the original Mk2 beta/gamma electronic personal dosimeter; incorporating essentially the same design and features, but with the beta detector and window removed. The EPD-G is suitable for use where there is no requirement for beta detection and measurement. The EPD-G provides a cost-effective design, advanced radiological performance and enhanced unit ruggedness due to the removal of the beta window.

The Thermo Scientific EPD-G dosimeter is perfect for utilities, agencies, medical facilities, research laboratories and other applications where only gamma doses and dose rates need to be monitored and recorded. The EPD-G has inherited the excellent mechanical, sealing, thermal, and

EMC performance of the beta/gamma unit. The G-variant also boasts a ruggedized battery cap and an improved display.

The unit is powered by a single standard AA cell, either 1.5V alkaline or 3.6V Lithium Thionyl Chloride for maximum battery life. Pre-use integrity checks may be initiated over the IR (Infra-Red) communications link as part of the EPD Issue process of Access Control or Dosimetry Management systems. These checks include detector test, battery test and battery voltage read. Display and function are controlled by a single button on the front of the unit, recessed to prevent inadvertent operation.