

Tracerco PEDs

Personal Electronic Dosimeter



Tracerco has designed the PEDs to be the easiest personal radiation monitors on the market to use and understand. Everything on the devices has been designed with the user in mind. The display system features radiation graph measurements

and a simple diagram of a person who fills with color, depending on the dose of radiation received. All of our PEDs include weather, shock and drop proof housings, a smooth clean design and simple to use software.



PED-IS

This intrinsically safe (IS) Personal Dosimeter is perfect for both radiation specialists and those who do not work with radiation every day. It is safe to use in potentially explosive environments, robust and reliable, making it ideal for challenging environments.



PED Blue & PED-ER

The PED Blue is a high quality Personal Dosimeter featuring the same design and features as the Tracerco PED-IS in a light weight, non IS model.

The PED-ER has an extended dose rate range of up to 1 Sv/h and the ability to record and provide accumulated dose via the large, clear display and intuitive graphical user interface (GUI).



PED+ & PED-ER+

The PED+ can be used as both a PED and a handheld dose rate survey meter. The PED+ has a number of added features, such as Bluetooth, GPS and pop-up message alarms.

The PED-ER+ has an extended dose rate range of up to 1 Sv/h, weather, shock and drop proof housings which is the ideal solution for use in rugged environments.

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SPECIFICATIONS

Radiation detected	X-rays and gamma rays in range (33 KeV to 3 MeV PED-IS, PED Blue, PED+), (48 KeV to 3 MeV PED-ER, PED-ER+)*
Detector	Single energy compensated Geiger Muller tube
Dose rate range	Bar graph display (0-100 mSv/h PED-IS, PED Blue, PED+), (0-1 Sv/h PED-ER, PED-ER+) Digital numeric display (0-100 mSv/h PED-IS, PED Blue, PED+), + (0-1 Sv/h PED-ER, PED-ER+)
Accumulated dose range	Dose "Man" display 0-10 Sv. Digital numeric display 0-10 Sv
Peak radiation dose rate	Digital numeric display 0-100 mSv/h (PED-IS, PED Blue, PED+) Digital numeric display 0-1 Sv/h (PED-ER, PED-ER+)
Operating temperature range	-4°F to 122°F (-20°C to 50°C)
Humidity range	Up to 95%
Ingress protection rating	IP67 (dust tight and can withstand immersion in water at depth of 1m)
Case material	Shock, vibration and drop resistant polymers Antistatic surface properties (PED-IS only)
Size	4.1 in x 2.5 in x .95 in (104mm x 64mm x 24mm)
Units	Sieverts or Rem (may be selected in DoseVision software) "
Weight	6.7 oz (190g) including belt clip
Memory	125,000 data point capacity. Serial non-volatile memory. 10 year data retention
Battery	Rechargeable lithium Ion. Recharge via standard 5V micro USB connection. Can be charged from PC
Battery life	300 hours typically with background radiation**
Low battery indication	On 8 hours battery life remaining
Hazardous area certification code PED - IS Only	ATEX: Certification No. Baseefa11ATEX0045 Marking -II 1G Ex ia IIC T4 Ga (-20°C . Ta . +50°C) IECEX: Certification No. IECEX BAS11.0027 Marking - Ex ia IIC T4 Ga (-20°C . Ta . +50°C) FMc : Marking - CI I, ZONE 0, Ex ia IIC T3 (-20°C . Ta . +50°C) FMus : Marking - CI I, ZONE 0, AEx ia IIC T3 (-20°C . Ta . +50°C) Marking - IS CI I, DIV 1, GPS ABCD T3 (-20°C . Ta . +50°C)
Hazardous area classification code PED - IS Only	ATEX & IECEX: Zone 0, 1, 2 gas group IIA, IIB, IIC FMc : Class I, Zone 0, Group IIA, IIB, IIC FMus : Class I, Division 1, Gps A, B, C and D, Class I, Zone 0, Group IIA, IIB, IIC
Standard compliance	BSEN 61526, EN55011, IEC60079-0, IEC60079-11, IEC61010-1, FM Class 3600, FM Class 3610, FM Class 3810, ANSI/IEC 60529, CSA-C22.2 No. 60079-0, CSA-C22.2 - E60079-11, CSA-C22.2 No. 60529, CSA C22.2 No 1010.1

* For detailed response curve please see report by Radiation Metrology Ltd.

** Battery life on the PED+ and PED-ER+ will be greatly reduced when using Bluetooth and GPS. Typical battery life based on use of screensaver.

APPLICATIONS

- Oil and Gas
- First Responders (CBRNe)
- Military
- NDT
- Mining
- Nuclear Power
- Border Controls
- Medical & Life Sciences

