

Tracerco™ Personal Electronic Dosimeter (PEDs)

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 colour, 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

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.



PED+

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.

Tracerco™ PEDs

Radiation detected	X-rays and gamma rays in range 33 keV to 3 MeV*
Detector	Single energy compensated Geiger Muller tube. Digital numeric display 0-100 mSv/h
Dose rate change	Bar graph display 0-100 mSv/h. Digital numeric display 0-100 mSv/h
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
Operating temperature range	-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	104mm x 64mm x 24mm
Units	Sieverts or Rem (may be selected in DoseVision™ software)
Weight	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) FM _C : Marking - CI I, ZONE 0, Ex ia IIC T4 (-20°C ≤ Ta ≤ +50°C) FM _{US} : Marking - CI I, ZONE 0, AEx ia IIC T4 (-20°C ≤ Ta ≤ +50°C) Marking - IS CI I, DIV 1, GPS ABCD T4 (-20°C ≤ Ta ≤ +50°C)
Hazardous area classification code PED - IS Only	ATEX & IECEX: Zone 0, 1, 2 gas group IIA, IIB, IIC FM _C : Class I, Zone 0, Group IIA, IIB, IIC FM _{US} : 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., available upon request.

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

Applications:

- Oil and gas
- First responders
- Military
- NDT
- Mining
- Nuclear power
- Medical
- Border controls

For further information please request our Full PED brochure.