

PED Family Specification

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	-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 - Cl I, ZONE 0, Ex ia IIC T3 (-20°C ≤ Ta ≤ +50°C) FM _{US} : Marking - Cl I, ZONE 0, AEx ia IIC T3 (-20°C ≤ Ta ≤ +50°C) Marking - IS Cl 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 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.

** 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.

LabLogic Systems Limited

Paradigm House, 3 Melbourne Avenue, Broomhill, Sheffield, S10 2QJ, UK
+44 (0)114 266 7267 | solutions@lablogic.com | www.lablogic.com

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