

Product Datasheet

Tracerco™ PED-Blue

Personal Electronic Dosimeter

Tracerco's range of personal electronic dosimeters (PEDs) are suitable for oil and gas, medical and life sciences, nuclear, CBRNe and emergency services, NDT, manufacturing and industrial, and environmental and waste management industries. We offer both intrinsically safe and non-intrinsically safe options for all needs.

The PED-Blue is a lightweight, non-IS PED. The device can be charged with a direct micro USB connection, providing greater flexibility. The PED-Blue can also be configured to use either two or four dose alarm levels and is customisable through DoseVision™ software.



Features

- Robust and easy to use.
- Direct micro USB connection for greater flexibility.
- Large, clear, easy-to-read display.
- Light weight – suited to more applications.
- Used with DoseVision™ software – ease of use and functionality.
- IP67 rated.
- Simple one-button operation.

Specifications

Mechanical

Case Material Tough polymers with antistatic surface properties

Size 10 x 6 x 2 cm

Weight 160 g approx.

Radiological Performance

Radiation Detected X-rays and gamma rays in range 33 keV to 3 MeV

Sensor Single, energy compensated Geiger Müller tube

Units Sieverts or Rem (may be selected in DoseVision software)

Radiation Dose Rate Bargraph display 0 to 100 mSv/h or 0 -10 Rem/h
Digital numeric 0 to 100 mSv/h or 0 -1000 Rem

Accumulated Dose Dose 'man' display 0 to 10 Sv or 0 -1000 Rem
Digital numeric 0 to 10 Sv or 0 -1000 Rem

Peak Radiation Dose Rate Digital numeric 0 to 100 mSv/h or 0 -10 Rem/h

Alarms Two alarm levels for both dose and dose rate. Alarm levels set via DoseVision software. Dedicated LEDs for dose and dose rate will flash amber for first alarm level and red for second alarm level. Loud beep and powerful vibrate alerts occur during alarm.

Overload Response PED gives clear indication of overload when above 100 mSv/h. A special feature of the Tracerco PED is continued indication of possible accumulated dose inaccuracy due to overload. This indication is provided on both the PED and in the data in DoseVision.

Variation with Temperature Less than $\pm 10\%$ over temperature range -20°C to +50°C.

Dose Rate Linearity $\pm 16\%$ over the range 2 μ Sv/h to 100 mSv/h

Battery

Battery Rechargeable lithium ion

Battery Life (with screen saver on) Greater than 300 hours typical battery charge with background radiation and room temperature. Tested and passed according to EN61526.

Low Battery Indication Approximately 8 hours available life left with background radiation. Tested and passed according to EN61526.

Time to Recharge 2 hours from flat

Environmental

Operating Temperature Range -20 to 50°C
Temperature stability tested and passed according to EN61526.

Humidity Range Up to 95%
Tested and passed according to EN61526.

Vibration 20 ms⁻² for 15 mins in each of 3 orthogonal directions in the range 10 to 33Hz. Tested and passed according to EN61526.

Shock 6 x 1 m drops onto concrete, 1 drop on each face of TRACERCO PED. Tested and passed according to EN61526.

Microphonics 60 x 10cm drops onto hard steel surface, 10 shocks on each of the main 6 faces. Tested and passed according to EN61526.

Ingress Protection Rating IP67

Data Logging

Memory 125,000 data point capacity. Includes dose measurements and alarms/fault events

Memory Retention Serial non-volatile memory. 10 year data retention.

Dose Data Log Interval Intelligent Mode: log every 0.01 μ Sv
Periodic Mode: log every 1 minute
Logging mode selected in DoseVision. Tested and passed according to EN61526.

Specifications are subject to change without notice. For the most up-to-date specifications, please visit www.tracerco.com

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