DE LOOPER N.D.O.
non destructive testing & inspection equipment

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Personal Electronic Dosimeter (PED Blue)

The PED-Blue, suitable for those working in Oil & Gas, Medical and Life Sciences, Nuclear, CBRNe & Emergency Services, NDT, Manufacturing & Industrial and Environmental and Waste Management industries, is a high quality Personal Dosimeter, featuring the same design and features as the Tracerco PED-IS, in a lighter weight, non-IS model. The charging dock is no longer required and the device can be charged with a direct micro USB connection, giving greater flexibility. The PED Blue can also be configured to use either 2 or 4 dose alarm levels. This is customisable through DoseVision™ software.

The benefits of the PED-Blue are:
- Robust and easy to use
- Direct Micro USB connection for greater flexibility
- Large, clear, easy to read display
- Lighter weight - suited to more applications
- DoseVision™ software - ease of use and functionality, IP67 rated
- Simple one button operation

The PED Blue is suitable for:
- Emergency Services & First responders (CBRNe)
- Medical & Life Sciences
- Nuclear
- NDT
- Industrial
- Oil and Gas safe zones

Tracerco™ Personal Electronic Dosimeter (PED) - A Solution for Every Situation

Tracerco is a world leading technology company, providing unique and specialised detection, diagnostics and measurement solutions. Our latest innovation for radiation monitoring is an extended family of PEDs that deliver exceptional performance across a wide range of environments and applications.

Tracerco has designed the PED family to be the easiest personal radiation monitors to use and understand on the market. Everything on the devices has been designed with the user in mind. For example, the display system features a simple diagram of a person who fills with colour, depending on the dose 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.

Suitable for:

- **First responders**
- **Oil and Gas**
- **Nuclear**
- **Mining, and more.**

PED Blue

This is a non-IS version of the original PED-IS. This lighter weight version still retains the same high quality design and features a direct micro USB connection.

Suitable for:

- **NDT**
- **First responders**
- **Medical and Life Sciences**
- **Nuclear**
- **Industrial, and more.**

PED+

This is an advanced version of the PED Blue. It 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 text message alarms.

Suitable for:

- **NDT**
- **First responders**
- **Military**
- **Border controls**
- **Oil and Gas safe zones and more.**

PED-IS, PED Blue and PED+ Features



	PED-IS	PED Blue	PED+
Features on PED features			
Dose rate, Accumulated Dose, Stay time and Peak Dose Rate	✓	✓	✓
Sv or Rem display units	✓	✓	✓
Extra Dose alarm option (4 instead of 2 as standard)		✓	✓
LED, Vibration and Audio alarm alerts	✓	✓	✓
Data logging	✓	✓	✓
Task specific measurements	✓	✓	✓
Low battery warning	✓	✓	✓
Activity sounder	✓	✓	✓
Multiple languages	✓	✓	✓
Hazardous area approved	✓		
Charging and PC connection via dock	✓		
Charging and PC connection direct via micro USB		✓	✓
Changeable Displays and Splash screens		✓	✓
Customisable on-screen messages for alarms			✓
Bluetooth connectivity			✓
Handheld survey meter mode			✓
In-build GPS measurement and location data-logging			✓
Wireless charging via inductive charger dock			✓
DoseVision™ PC software features			
Download and Reset accumulated data on PED	✓	✓	✓
Configure alarm levels	✓	✓	✓
Select number of dose alarms		✓	✓
Set PED date and time	✓	✓	✓
Multiple languages	✓	✓	✓
Password protection to restrict access to administrator functions	✓	✓	✓
Manage and Create user profiles	✓	✓	✓
Generate graphs and dose reports	✓	✓	✓
Display location specific dose data on a map			✓
Enable/disable text based alarm messages			✓
Customise text based alarm messages			✓
DoseVision™ Live Android app			
Connect to up to 7 PEDs simultaneously			✓
Display dose, dose rate and alarm status for all connected devices			✓
Request device specific information such as battery level and stay time			✓
Visual indication of alarms status			✓
Audible indication of any alarms raised by connected devices			✓
Mute function for active alarms			✓

PED Family Specification

Radiation detected	X-rays and gamma rays in range 33 keV to 1332 keV.
Detector	Single energy compensated Geiger Müller tube.
Dose rate range	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.
Battery	Rechargeable lithium ion. 300 hours run-time typical. Recharge via standard 5V micro USB connection. Can be charged from PC.
Memory	125,000 data point capacity. Serial non-volatile memory. 10 year data retention.
Units	Sieverts or Rem (may be selected in DoseVision™ software).
Operating temperature range	-20°C to 50°C.
Ingress protection rating	IP67 (dust tight and can withstand immersion in water at depth of 1m).
Hazardous area certification (PED-IS only)	ATEX EU directive 94/9/EC Safe for use in Explosive Atmosphere Zones 0, 1, and 2 ATEX Coding Ex II 1G Equipment code Ex ia IIC T4 Ga (-20°C < Ta < 50°C) ATEX Certificate No Baseefa 11ATEX0045 IECEx Certificate No. IECEx BAS 11.0027. FM approved for Class I Div I Groups ABCD Ta = 50°C and Class I Zone 0 IIC T4.
Low battery indication	On 8 hours available life left.
Humidity range	Up to 95%.
Case material	Shock, vibration and drop resistant polymers. PED-IS: Additional antistatic surface properties.
Standard compliance	BS EN 61526:2013 - “Radiation protection instrumentation - Measurement of prsonal dose equivalents Hp(10) and Hp(0.07) for X, gamma, neutron and beta radiations - Direct reading personal dose equivalent meters” EN55011:2009+A1:2010 - “Industrial, scientific and medical equipment. Radio-frequency disturbance characteristics. Limits and methods of measurement”.