PICO ENVIROTEC INC.

NUCLEAR / RADIATION

PDOSE-3

GAMMA DOSE EQUIVALENT RATE (GDER)

The PDOSE-3 is designed for mobile and portable radiation protection including field measurements, selective sampling and stationary monitoring.

The PDOSE-3 system is based on advanced microprocessor technology. Equipped with two energy compensated Geiger Tubes, the device covers a wide range of measurements from 50nSv/h up to 400 mSv/h of GDER.

The user interface and data acquisition system are based on the Android OS and can be hosted on any portable device such as a smart-phone, a tablet or a note-book. Communication between the PDOSE-3 detector and the selected data logger is set via Bluetooth protocol.

The interface software allows the user to control acquired data and GDER in a real time mode, select continuous recording or station mode accumulative measurements or to follow selected survey lines or way-points using GPS navigation system.

The acquired data is automatically synchronized with GPS position and time. The data is saved on internal SD memory cards in binary format.

The PDOSE-3 PEI can operate in a black-box mode continually collecting the data after switching on. Data is simultaneously recorded on internal Micro SD card. The GPS time and location synchronized data will be copied to the Data acquisition device once connected.

SPECIFICATION HIGHLIGHTS

Range:

- 2 Geiger tubes for full range monitoring
- Automatically switches from low-range Geiger tube to the high-range Geiger tube
- Measurement range of GDER: From 50 nSv/h up to 400 mSv/h
- Energy range: From 50 keV to 2.5 MeV
- Integration time: from 1 to 3600 sec

GPS:

- Embedded Ultra-sensitive Fastrax GPS chip integrated in the dose meter
- Portable Navigation on pre-set grid, foot-path recording

Handheld Operation:

- Rugged Android Handheld Data Logger with Bluetooth communication
- No cables or wires necessary for operation or data transfer

Data Recording:

- GPS position and time synchronized
- Total counts on each tube
- Dose level
- Pre-set audio alarms at user defined levels
- Internal/Micro SD card

Portability:

- Android Handheld is easily removed from sensor/ battery unit if required.
- Handheld will communicate at distances of up to 5 meters from sensor unit
- Sensor can be stored in a backpack for mobile/surveying functionality (optional)
- Weight 3.5 kg

Languages:

- English - standard
- Localization available

PDOSE-3 SPECIFICATIONS