



Wireless system 

Wifi connection 

Bluetooth services 

Litium battery 

GDES WPD.1 DOSIMETER

Wireless dosimeter based on low power consumption, low weight and low price.



Real time registration of dosimetric data and storage in internal memory. Sending of information to the Dosimetry Management Service by telematic Systems.

 **GDES**
innovation

Radiation exposed personnel carry GDES WPD.1 dosimeter during specific activities to monitor the received dose in real time.

OPERATING MODES

PERSONAL DOSIMETER

Radiation exposed personnel carry GDES WPD.1 dosimeter during the whole working day following the same methodology as with a TLD dosimeter (It can be use as dose operacional control,

together a TLD unit). Once the work finishes, the dosimeter should be placed in the load base. Then, the worker dose assignment is made through a touch panel located in the load base.



AREA DOSIMETER

GDES WPD.1 dosimeters are placed in the defined measuring points, connected to the power supply. Dosimetric measurements are sent wireless to the Dosimetry Management Service with the configurable period. Dose assignment to workers is done automatically from the description of the workday defined in the web application.



PHYSICAL SPECIFICATIONS

Weight: 45 g
Size: 73 x 56 x 21 mm
Covering: ABS plastic covering without penetrations.

RADIOLOGICAL SPECIFICATIONS

Detector Semiconductor: (PIN Diode)
Detectable radiation: Gamma, R-X (including pulsed radiation)
Energy response: $\pm 20\%$ 30 Kev - 1.5 Mev
Angular response: $\pm 60^\circ$
Dose rate linearity: $\pm 20\%$ 0,1 μ Sv/h – 0,5 Sv/h (Ref. Cs-137)

OTHER SPECIFICATIONS

Temperature: -10°C a +40°C
Humidity: 40% a 90% HR
IP Rating: IP65
Communication: Bluetooth / Wifi
Battery: Litium polymer battery, rechargeable via induction.
Autonomy: 7 days
Nonvolatile memory Data permanently stored in internal memory with configurable storage period.
Identification: Serial number in a label integrated in the dosimeter and duplicated in internal memory.
Information management: Ad-hoc software developed to manage dosimetric data, dose allocation, warnings of overexposures, etc

SOFTWARE FOR DATA MANAGEMENT

