

### Manual Monitor EPR 7012 and GXP 7011

The EPR 7012 and GXP 7011 dosimeter are used portable to measure gamma and X-ray dosimetry.

#### Technical Specifications

- Radiation measured: X and  $\gamma$  ray
- Two Geiger Muller detectors
- Energy response range: 100 keV to 1.25 MeV
- The gamma dose rate measurement range:  $0.1 \frac{\mu Sv}{h}$  to  $10 \frac{mSv}{h}$
- The gamma cumulative dose measurement range:  $0.1 \mu Sv$  to  $10 mSv$
- Dose rate unit:  $\frac{\mu R}{h}$ ,  $\frac{mR}{h}$ ,  $\frac{R}{h}$ ,  $\frac{\mu Sv}{h}$ ,  $\frac{mSv}{h}$ ,  $\frac{Sv}{h}$
- Measurement accuracy:  $< \pm 15\%$
- Calibration accuracy:  $< \pm 5\%$
- Cumulative dose unit:  $\mu R$ ,  $mR$ ,  $R$ ,  $\mu Sv$ ,  $mSv$ ,  $Sv$
- Response time:
  - $0.1 \frac{\mu Sv}{h}$  to  $10 \frac{\mu Sv}{h}$ :  $< 20$  s
  - $1 \frac{\mu Sv}{h}$  to  $10 \frac{mSv}{h}$ :  $< 10$  s
  - Up to  $10 \frac{mSv}{h}$ :  $< 2$  s
- Operation time: maximum 1 min
- Battery life: 48 hours of continuous operation at a background dose rate at  $25^\circ C$
- Operating temperature:  $-20$  to  $+60^\circ C$
- Relative humidity: 0 to 95%
- Water-repellent water spray for EPR 7012 and immersion for GXP 7011
- Display: backlight
- Storing temperatures:  $-30$  to  $+70^\circ C$
- Relative humidity: 0 to 95%
- Water proof
- Earthquake-resistant
- Sand and dust resistance
- Impact resistance
- Shock resistance
- EMI/RFI resistance
- EMP resistance

- The device always stores 255 readings from the last dose rate in the user-defined time interval (1 to 99 minutes).
- The ability for displaying information on the display
- Transfer data to PC via RS232 protocol
- Do not need to open the door to calibrate the device
- Possibility to choose the level of dose rate warning or cumulative dose by the user.
- Possibility to enter the date and time of the start of the cumulative dose measurement by the user.
- Removal of contamination, easily
- Warning for dose rate more than measurement range
- Battery exchanging, easily
- EPR7012 dimension:  $74 \times 27 \times 161$ .
- GXP7011 dimension: cylindrical with a diameter of 48 mm and height 196 mm.

### Applications

- Application in the safety-health mining and steel industries.
- Application in precision radiation monitoring instruments used in mining, steel, oil, gas, petrochemical industries and so.
- Control of radioactive contamination of materials and input and output equipment in mining and steel industries.
- Nuclear powers and centers of the country
- Industrial radiography and inspection centers
- Nuclear medicine centers
- Safety and radiation protection services for workers in various industries
- Passive defense organization
- Atomic energy organization
- Environmental contamination monitoring teams