

## Technical Specifications of neutron rem counter

- A portable Neutron Rem counter for neutron surveys and area monitoring.
- **Required neutron energy range: 0.025 eV to ~20 MeV**
- Dose equivalent Range
  - Rate mode
    - 0  $\mu\text{rem/h}$  to 75 rem/h
    - 0  $\mu\text{Sv/R}$  to 0.75 Sv/h
    - 0 cpm to  $2.5 \times 10^6$  cpm
  - Integrated mode
    - 0  $\mu\text{rem}$  to 1000 rem
    - 0  $\mu\text{Sv}$  to 10 Sv
    - 0 to  $10^9$  counts
- Gamma sensitivity/rejection: No response in  $^{137}\text{Cs}$  /  $^{60}\text{Co}$  gamma radiation in fields up to 500 R/h
- Accuracy: Within  $\pm 10\%$  of theoretical ICRP-74 dose rate
- Display: Digital
- Read out should be detachable from detector assembly. Detector assembly cable length should be: 2 meters and 10 meters.
- Power requirements: Battery 100 hours operation, as well as mains (230V) operated.
- Alarm: Audio and visual set point can be programmed.
- Logging of data: Can be interfaced to a personal computer to set up data logging