PNM-01
PORTABLE PDE NEUTRON METER

MAIN ADVANTAGES
- High reliability and durability
- Useful in variable application
- Both indoor or outdoor use

PURPOSE
The PNM-01 meter is designed for the measurement of ambient dose equivalent rate in neutron fields in different environments, such as spent fuel storage facilities in nuclear power plants, PET centres with cyclotrons, workplaces with particle accelerators, radioactive waste repositories, neutron calibration laboratories, etc.

The detector of monitor PNM-01 is a proportional $^3$He detector, sensitive to low energy neutrons. Detector is connected with moderator Bonner sphere, made from polyethylene, with average 25 cm.

The Bonner sphere is intended to moderate (thermalize) the higher energy neutrons to neutrons with detectable energies. The signals from the detector are presented in RadCount-2S Display Unit.

SPECIFICATION
- Measuring range: from 1E-7 to 1 Sv/h
- Sensitivity ($^{252}$Cf): 4 cps / µSv/h
- Accuracy: ±20%
- Dimension: (250 × 525 × 423) mm
- Weight: 14 kg with batteries
- Power supply: 4 pcs AA size batteries, mains adapter
- Battery life: approx. 50 hours (without illumination)
- Temperature range: from -10 to +45 °C
- Humidity range: max. 95 % non-condensing
- Units: Sv/h, cps

RELATED PRODUCTS
- RadCount-2S Display Unit
- MDN-01 Neutron Dose Rate Meter