

Solid state detector used
Electronic Pocket Dosimeter
MYDOSE mini™ *n*

PDM-313

Features

- * Clear design
- * Simple operation (on/off switch only)
- * Recessed power switch to prevent misuse
- * Accumulated dose storage with no power supply
- * Strengthened immunity against EMI compared with the former PDM-303



Application

- * Neutron dosimetry (monitoring both thermal and fast neutron in a range from 0.01 to 99.99 mSv)

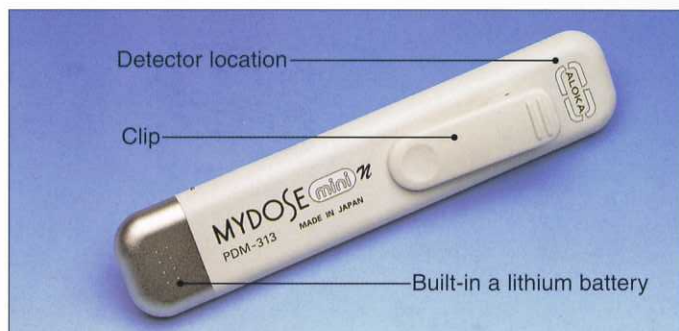
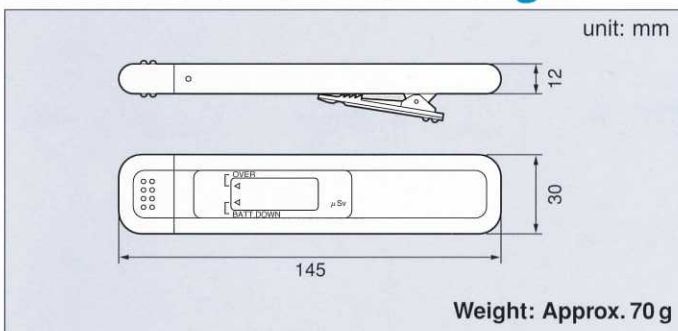
The PDM-313 is a slim, battery-operated, direct-reading electronic pocket dosimeter which can be worn by strap and clip to avoid accidentally dropping of. The instrument provides a large 4-digit LCD with overflow and low battery indications, which automatically performs an initial test prior to measurement. It continuously displays an accumulated dose and the measured value remains even the power is switched off. The power switch is recessed to prevent the instrument from erroneously turning off and the on/off is the only external control.

The PDM-313 designed for neutron is particularly suitable for the use around accelerator, experimental and power reactors.

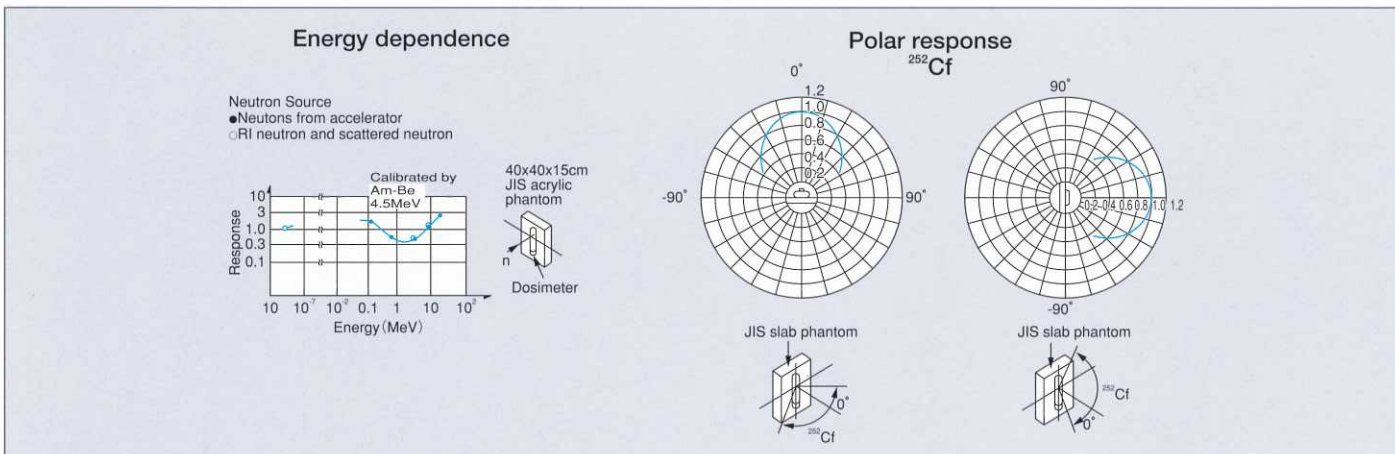
Specifications

Radiation detected	Neutron
Detector	Silicon semiconductor
Measurement range	0.01 to 99.99 mSv
Energy dependence	0.025 eV to 15 MeV, see the following figure
Accuracy	Within $\pm 40\%$ (calibrated by 4.5 MeV of Am-Be using a slab phantom)
Gamma rejection	Approx. up to 100 mSv/h
Display	4-digit LCD
Other	Display test function, overflow indication, low battery indication, data storage function ^(*) ^(*) The measured value is stored unless the battery is removed or the power switch is pressed for ten seconds when turning on the instrument.
Power supply	One lithium battery, CR2450 (coin size)
Battery life	Approx. one month of continuous use
Environmental requirements (in operation)	Temperature : 0 to +45 degrees C Relative humidity : up to 90% (non-condensing)

Dimensions and weight



Data for reference



Standard components

Main unit: 1, battery: 1, strap: 1, instruction manual: 1, inspection pass tag: 1

Consumable

Lithium battery, CR2450: Available upon request in a 10-battery pack.
Place orders with the supplier of this instrument.

- * The specifications and/or appearance of this instrument are subject to change without notice.
- * Thoroughly read the instruction manual before using the instrument to ensure safe use.
- * Periodic inspection is recommended to maintain performance.
- * MYDOSE mini™ is a trademark of Aloka Co., Ltd.

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