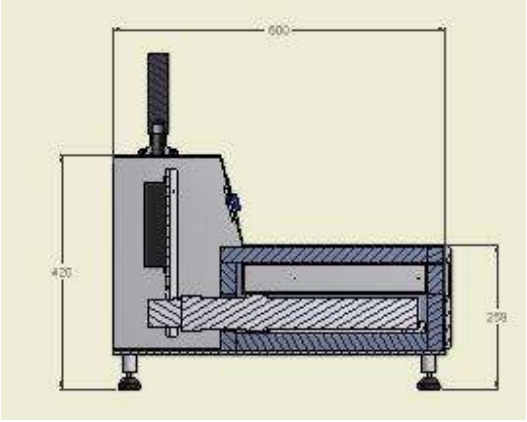
IMPROMAT

DORA
Radioactive Contamination Monitor for Documents and Small Objects

DORA measures documents and notebooks for radioactive contamination in an easy and ergonomic way. The drawer of 25x33x5 cm is designed for A4 and letter formats but small objects can be counted as well.
The measurement automatically starts when the drawer is closed. Measurement time is a user defined preset count time.
Counts per second (CPS) are displayed, as well as the count down time.
A beacon with green/red led indicates OK/Alarm. An audio alarm in case of contamination is available as well.
Sensitivity is high by using a large area plastic detector and 3 cm lead shielding.



The plastic scintillator converts gamma-rays from the gamma-emitting radionuclides into light. The photomultiplier (PMT) detects these light photons and amplifies the electron current by a cascade process. The PMT is connected to a Single Channel Analyzer that produces a logic output pulse when an input pulse falls within a user defined window.

Specifications

- Overall dimensions: 30x42x60 cm
- Weight: ± 180kg
- Detector: Plastic Scintillator 20x30x5 cm with integrated Photomultiplier Tube
- Single Channel Analyzer bPAD
- Dimension measuring drawer: 25x33x5 cm
- Energy range: 60keV to 3MeV
- Automatic start-stop: when closing the drawer, the measurement start for a user-defined preset time
- Visual and audio alarm indication
- Optional database

IMPROMAT
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