



RTM661/440

Premium Class Clearance Monitor



Nuclear
Power



Homeland
Security
& Defense



Industrial and
Manufacturing



Healthcare



Labs and
Education

OVERVIEW

The RTM661/440 is designed for the reliable re-release measurement of various objects such as tools, waste bags or brief cases.

Its fast, integral gamma measurement is based on the use of gamma plastic scintillation detectors in line with modern PC-based counting electronics. The system is based on an industrial personal computer.

KEY FEATURES

- Proven measurement methodology
- Easy operation and display of measurement data
- Many options enhance operation
- Various operating modes
- Designed for performance in nuclear environments

OVERVIEW OF FEATURES

Proven measurement methodology in accordance with the rules for free release of material

- total gamma activity measurement using large-volume plastic scintillation detectors in a 4 π measurement geometry
- taking into account all relevant nuclides, even if only one is measurable fingerprint technique (nuclide vector)
- integrated weight cells
- activity statements can be related to surface and weight
- background reduction due to measured material self-shielding taken into account

Easy operation and clear display of measurement values

- graphic display of activity distribution, including the display of activity position as deviation from average value in %
- calibrations linked to measurement material (shielding effect, geometry effect, background reduction, weight, clearance levels), unlimited number of selectable materials
- display of measurement value in Bq, Bq/g, Bq/cm (nuclide related with optional nuclide fingerprint module), weight, material and type
- printer record (optional: label printer)
- large objects can be measured with open door

Real-time, multi-tasking operating system

- software with graphical user interface
- calibration tool
- various optional service applications (detector test etc.)

Designed for performance in nuclear environments: painted mild steel housing, easily to be decontaminated.

CUSTOMER BENEFITS

Easy handling and maintenance of monitor for quick and routine proof that

- items to be removed from controlled area temporarily or permanently are “clean” of radioactivity
- waste activity is below clearance level

PC based data management

- quick and stable operation through use of industry standard operating system
- various interfaces and optional software add-ons
- TCP/IP ability

A number of operating modes and options allow tailoring of instrument behavior to specific user experience.

REFERENCES

Mirion RTM661/440 monitors have been proven over many generations of Mirion free release monitors.

The RTM661/440 monitor is the ideal monitor to supplement whole body contamination monitors at the exit points from controlled areas in nuclear facilities and to support small scale, free release of waste materials.



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