



# RTM690

Small Items Monitor



Nuclear  
Power



Homeland  
Security  
& Defense



Industrial and  
Manufacturing



Healthcare



Labs and  
Education

## OVERVIEW

The RTM690 is a small items monitor in a conveyor design for detection of gamma (and beta) contaminated items. The measurement chamber is equipped with gamma plastic scintillation detectors (beta as an option).

The material to be measured such as hard hats, tools or any long items, is continuously transported through the measurement chamber. In case of contamination the conveyor belt stops and rolls backwards.

## KEY FEATURES

- High throughput
- Large surface gamma plastic scintillation detectors
- Option: beta plastic scintillation detector
- Automatic background subtraction
- Automatic speed control belt conveyor or roller conveyor

Health Physics

## OVERVIEW OF FEATURES

- Large surface plastic scintillation detectors for gamma radiation
  - 4 gamma detectors
  - option: 1 beta detector
- Speed of conveyor belt is automatically adjusted in accordance with background and alarm thresholds: in case of contamination, conveyor rolls backwards when an item passes the measurement chamber, the conveyor slows down for longer measuring time
- Background compensation using a unique method applying two median filters
- Display of activity results in cps, cpm, Bq and Bq/cm<sup>2</sup>
- Service programme MOWIN for calibration and repeat tests
- Built-in service and test functions for conveyor hardware and detectors
- Designed for performance in nuclear environments: painted mild steel housing, easily decontaminated



## CUSTOMER BENEFITS

- High throughput
- low cost of operation and maintenance
- TCP/IP ability
- Option: link up with CeMoSys™ server for centralised monitoring

## REFERENCES

Mirion small items monitors have been proven over many generations of Mirion monitors. The RTM690 monitor is ideally suited to complement whole body contamination monitoring at the exit points from controlled areas in nuclear facilities with screening of small items such as hard hats or tools

- with potential gamma contamination (beta as an option)
- with high throughput requirements.

The RTM690 is also very well suited for contamination monitoring of long items.



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