



RTM750™

Laundry and Small-Items Conveyor Monitor



Detection of radioactive contamination on clothing and other small and/or long items such as tubes, poles and valves.

DESCRIPTION

The laundry and small items RTM750 monitor is used for detection of radioactive contamination on clothing and other small and/or long items such as tubes, poles and valves.

Detector arrays above and below the stainless-steel mesh belt guarantee high sensitivity. The detector arrangement ensures measurements without any dead zones. The gap between the belt and upper detector array is adjustable to achieve as low detection limits as possible, monitored by light barriers.

The RTM750 monitor can be equipped with various detector combinations to meet specific requirements.

FEATURES

- ✓ High sensitivity, no dead zones
- ✓ Beta plastic, gamma plastic, gas detectors, or combinations
- ✓ Belt available in various dimensions
- ✓ Automatic speed control
- ✓ Height adjustment (2 - 18 cm; optionally more)
- ✓ Automatic background subtraction
- ✓ Selectable alarm levels in cps, cpm, Bq, Bq/cm²
- ✓ Audible and visible alarm indication
- ✓ Alpha/beta discrimination (optional)
- ✓ Second conveyor for automated sorting of items (optional)
- ✓ Uninterruptible power supply (optional)

RTM750™ LAUNDRY AND SMALL-ITEMS CONVEYOR MONITOR

FUNCTIONALITY

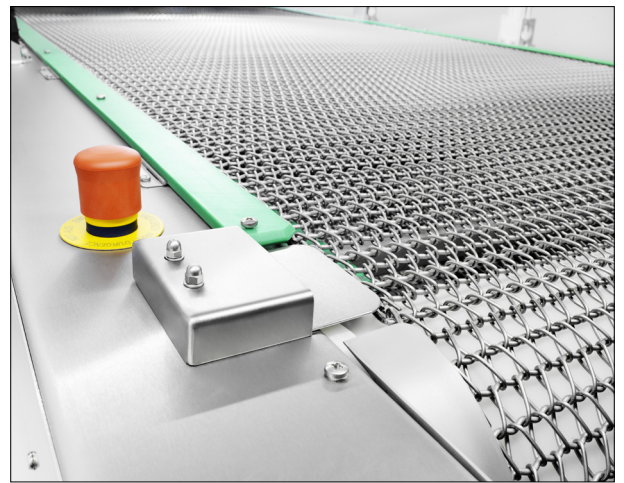
The belt speed is calculated and set automatically in a range between 0.6 and 12 m/min dependent on measurement mode, current background, alarm threshold, detection safety and false alarm rate (acc. to ISO 11929). In case of alarm the belt reverses its movement to the start and stops. An alarm message is displayed on the screen. A high contamination alarm, e.g., in case of hot spots, triggers an additional acoustic alarm. All contaminations are clearly indicated by visual and audible alarm. The results are stored in a measurement database. To avoid puncturing detectors by the measured goods a plastic belt can be utilized (optional). An additional conveyor allows for automatic sorting of the measured goods according to the measurement result (optional).

USERS BENEFITS

- High throughput: up to 375 overall/h
- Contamination measurement from below and above
- Adjustable height of upper detectors (2 - 18 cm; optional up to 40 cm)
- Large TFT 19" color display (touch screen optional)
- Automatic system check
- Uninterruptible power supply (optional)

TECHNICAL SPECIFICATIONS

- Standard dimensions:
 - Length: 2000 - 3400 mm
 - Width: 900 - 1400 mm
 - Height: 1730 - 1980 mm
- Detectors: beta plastic scintillation or gas-flow detectors or gamma plastic scintillation or combinations
- Detection limit: 45 Bq (Co-60, 1.2 m/min)
- Belt speed: 0.6 m/min - 12 m/min
- Energy range: 50 keV - 3 MeV



OPTIONS

- Impermeable plastic conveyor belt
- Additional conveyor for sorting clothes according to measurement result
- Mechanical height adjustment for whole RTM750 monitor
- Tray and trackball, plus finger protection
- Alpha/beta discrimination
- ISO 11929 implementation



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