MIRION TECHNOLOGIES

Radiation. **Safety.**

RTM860TS

Whole Body Contamination Monitor

Nuclear Power

Homeland Security & Defense

Industrial and Manufacturing

Healthcare

Labs and Education

OVERVIEW

The RTM860TS whole body contamination monitor in its 5th generation checks personnel's front and back for radioactive alpha, beta and gamma (optional) contamination. It features the industry's largest detection area of 2 x 17 500 cm^2 in total, plus having on average a very low minimum detectable activity.

The combination of the unique patented split delta geometry - for a uniform detection sensitivity - and the TwoStep™ process - for measurement of front and back of a person - paired with reliable measurement electronics and software, are the foundation for the success of the RTM860TS. The RTM860TS is a very well-proven monitor and today's industry standard in many parts of the world.

KEY FEATURES

- Many detector configurations possible for alpha, beta, gamma radiation detection
- High throughput
- Quick gas-flushing system
- Low maintenance costs
- Central monitoring possible / ability to network
- Uninterruptible power supply
- Alpha, beta discrimination (optional)
- Small item measurement box with detection capability (optional)
- Automatic background compensation of user-dependent background shielding, based on automatic weight and height measurement (optional)
- Personalized results, when using card reader or dosimeter (optional)

Health Physics

PERFORMANCE

There are two major reasons for the long-lasting success of the RTM860TS:
a. TwoStep™ process: measuring person's front and back in two steps, making detection a lot more thorough, while
b. the patended split delta geometry makes sure the detection sensitivity is well-homogeneous.
Being prompted by voice, light, and display the person being measured is led through the measurement very quickly and effortless; even quicker when using P^2 measurement reduction tool, which reduces the measurement time by up to 30 %.
To make the measurement even more efficient, and adapting specific/local requirements, the monitor can be equipped with additional gamma detectors, and α- and β-radiation can be discriminated (both are features out of many optional ones).

USER BENEFITS

- Voice guidance in many languages available
- Stainless steel housing, designed for easy decontamination
- Automatic correction of background reduction
- Automatic adjustment of measurement time
- Display of values
- Uninterruptible power supply (UPS), buffering voltage fluctuations/drops
- System check software, monitoring and managing detector efficiencies

TECHNICAL SPECIFICATION

Dimensions	1180-1300 x 1000 x 2290-2930 mm^3 other dimensions possible
Weight	300 - 750 kg
Detectors	14 gas-flow detectors for body, hands, feet, head with 26 channels, plus additional gamma plast detectors, if required
Detection limit	33 Bq (Co-60; 5 s)
Compliance	IEC 61098, ISO 11929 and many others

OPTIONS

Gamma detection (various options)
Head detector modules (various options)
Small item measurement box (various options)
Entry / exit door or barriers
P^2 software to reduce measurement time by up to 30 %
Alpha, beta discrimination
Radon compensation
Detector test tool
Many other options available. Contact us at www.mirion.com

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