



CheckIn-Clean™

2-in-1 Quick Scan Monitor



Nuclear
Power



Homeland
Security
& Defense



Industrial and
Manufacturing



Healthcare



Labs and
Education

OVERVIEW

The CheckIn-Clean™ (RTM871) has been initially developed for fast entrance checks outside the controlled area of nuclear facilities. With this measurement all persons entering the plant are reliably and efficiently scanned for activity from outside. In case of contamination their entrance can be denied.

The system consists of a measurement chain featuring hybrid gamma/beta scintillation detectors, counting electronics and monitor software for analysis and control based on an industrial personal computer.

The monitor software is designed for highest performance in process control with an intuitive graphical user interface. An especially ruggedized version exists for the use in special security and combat situations for the use by special forces or civil defense.

KEY FEATURES

- Dual measurement for internal contamination
- including Hot Spot detection and contamination detection
- Fast measurement (typical 2 x 4 s)
- No requirements for gas supply
- Speech processor/multi-language
- Automatic background subtraction
- Suitable for networks
- Automatic adjustment of measurement time
- Display of measurement values (cps, dpm, cpm, Bq, nCi, Bq/cm², kBq/m²)

FEATURES

Detection

- large surface scintillation detectors for beta/gamma radiation
- TwoStep™ measurement
- differentiation between surface contamination and internal contamination
- background compensation with a unique method using two median filters
- measurements in cps, dpm, cpm, Bq, nCi, Bq/cm², kBq/m

User interface

- display of amount of activity and position of contamination
- user guidance by speech processor up to four languages user selectable (as an option)
- monitoring of the measurement position by optical sensors

Option: rugged construction model available - designed for combat conditions

- special fixings
- hardened to withstand high mechanical impacts or shocks
- smaller dimensions monitor to fit into transport containers

Option: replacement of thorax detectors with detectors of increased gamma sensitivity combined with scales for consideration of background suppression.

USER BENEFITS

Low cost of operation and maintenance

- No gas required for operation and no delay after maintenance due to gas flushing
- Low rate of damage to detectors in day to day wear
- Standard Mirion calibration tools
- Very easy adjustment of all programmable parameters

High throughput

- Option: P2 accelerator reduces measurement time up to 30 %

Ability to network

- TCP/IP ability
- Option: link up with CeMoSys™ server for centralised monitoring

REFERENCES

Mirion contamination monitors have been proven over many generations of Mirion body monitors. The CheckIn-Clean™ monitor of the CheckPoint:Gate™ family is the ideal monitor to complement security checks at the entry points from controlled areas in nuclear facilities. The CheckIn-Clean™ is also very well suited for source and contamination scanning in special situations such as post accident or conflict situations with radioactive components.



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