



# TwoStep™-PRE

Body Contamination Monitor



Nuclear  
Power



Homeland  
Security  
& Defense



Industrial and  
Manufacturing



Healthcare



Labs and  
Education

## OVERVIEW

The TwoStep™-PRE covers parts of the body most likely to be contaminated. It is easy to use and has an excellent user guidance by display and voice prompts. It is working in TwoStep™ mode with large-area gas-flow detectors.

Both design and features of the TwoStep™-PRE body monitor make it an effective contamination monitor for personnel. It enables high throughput of personnel, providing accurate and clear results.

## KEY FEATURES

- Easy operation
- Body, foot and forearm measurement
- Position sensor for proximity to detectors
- User guidance by voice prompts
- Automatic adjustment of measurement time
- Operation in cps, cpm, dpm, Bq, nCi, kBq/m<sup>2</sup> and Bq/cm<sup>2</sup>

## OVERVIEW OF FEATURES

Large area gas-flow proportional counters: alpha/beta measurement (optionally with discrimination). Maximum detection sensitivity for both front and reverse side due to proximity switch: coverage of front and reverse of body, feet, hands, head and forearms.

Operation:

- monitoring of the measurement position by optical sensors
- measurements in cps, cpm, dpm, Bq, nCi, kBq/m<sup>2</sup> and Bq/cm<sup>2</sup>
- measurement performed in two steps:
  1. front measurement of the body as well as the head, right hand and forearm, and right foot
  2. reverse side: back measurement, including head, left hand and forearm, and left foot
- display of amount of activity and position of contamination
- user guidance in up to four selectable languages

## CUSTOMER BENEFITS

Quick and easy operation with robust performance

- optional P<sup>2</sup> accelerator reduces measurement time up to 30 %

Service and maintenance:

- easily replaceable detectors
- calibration menu providing protocol and including a plateau plotter
- very easy adjustment of all programmable parameters
- data storage on USB or data printout for analysis
- maintenance software tools

Ability to network

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

## REFERENCES

Mirion body contamination monitors are market leading in Europe and many other countries world-wide.

The TwoStep™-PRE monitor is the ideal monitor to back up whole body contamination monitors as pre-monitor at exit points from controlled areas in nuclear facilities:

- with potential alpha/beta contamination
- with high or changing gamma background
- with high throughput requirements



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