

SPECIFICATION SHEET

# ISOMED 2163 INCORPORATION COUNTER



The ISOMED 2163 Incorporation Counter is used for routine incorporation measurements on personnel working in nuclear-medical facilities, especially radioiodine therapy wards.

## Advantages

- Examination results and evaluations comply with the requirements of the authorities
- Choice between monitoring methods: standard procedure (14-day measurements) and individual procedures
- Graphical representation of the energy spectrum

## Key figures

- 3 selectable measuring methods
- 3 nuclides: I-123, I-125 and I-131
- 2<sup>II</sup> × 2<sup>II</sup> NaI Scintillation Detector

## Product Description

The ISOMED 2163 Incorporation Counter measures the count rates above the thyroid and calculates the thyroid activity. In addition, the dose accumulated over a certain period of time is also calculated. Examination results can be saved together with the personnel data in a database and transferred to protocols.

The measuring system works on the basis of a computer with Windows operating system, external multi-channel analyser (MCA) and NaI scintillation probe.

The pulses arriving at the detector are processed by the MCA and output as a digital measured value. In addition, the measurements are displayed graphically as an energy spectrum.

## Functionalities

- Consideration of the individual thyroid mass and effective half-life
- Consideration of the residual activity of the previous incorporation measurement
- Calculation of the partial body dose and the effective dose over a selectable period of time
- Graphical representation of the activity history during a calendar year and display of the current energy spectrum
- Listing of all checks carried out, measured values and calculated dose values of all employees over a selectable period of time
- Staff registration possible via transponder
- A database with personal data exists for each employee
- Transfer of personnel data and examination results via networks and creation of protocols
- Menus for data backup and archiving
- Protection against manipulation and operating errors through several password-protected levels
- Monitoring according to standard procedures, individual procedures or Directive Switzerland.

