



FEATURES

- Quick measurements
- Automatic alpha detection
- β measurement
- Fast decontamination
- Easy to use, compact
- Built-in computer
- Direct display in contamination units
- Built-in printer

NT 200^① Smear Test Instrument

The NT200 is a small and easy to use smear test instrument.

The compact design and low weight allows usage on the location where the smear sample is taken. A 50mm (1.97 in) lead shield and a separate background detector allows measurements in increased background environment.

The NT200 has three measurement modes:

- Beta mode
- Beta and alpha mode
- Beta and automatic alpha (if any) mode
- High sensitivity

This makes the instrument versatile and easy to adapt to different tasks.

Housed in a compact and modular housing together with an integrated ticket printer, it allows direct operation on the smear sample located in the controlled area.

health physics

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Featuring:



PHYSICAL CHARACTERISTICS

- **Detector:**
 - Permanently filled and sealed proportional detector (Ar, CO²)
 - Active window diameter: 44 mm (1.73 in)
 - Normal operating voltage: 1475V
 - Plate length: approx. 100V
 - Detector's life length at working voltage: 10E11 pulses
 - Efficiency (2p geometry):
 - ⁶⁰Co: 32%
 - ²⁴¹Am: 30%
 - Background count rate:
 - 0.1 µSv/h: < 0.5 CPS
 - 100 µSv/h: < 5 CPS
- **Computer unit:**
 - PC-104 form factor with 486 compatible processor
 - Memory card slot (MMC) for the update of storage programs data transfert
 - 2 RS-232 serial ports
 - External keyboard port
- **Display:**
 - Resolution: 256 x 64 pixels
 - Display angle: almost 180° (356°F)
 - CFL type white background light
 - screen saver in standby mode for increasing the CFL tube's life (picture of the measurement display)



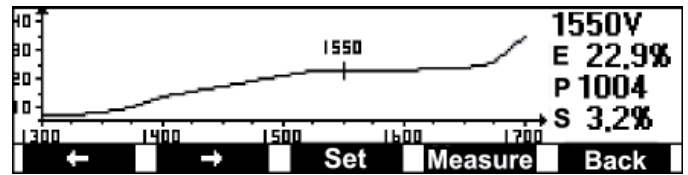
The NT200 calibration is done very easily with an automated procedure. The activity of the reference source, the measuring time and the step high voltage for the plates must be selected. The NT200 automatically selects the start and stop high voltage and computes the detector response curve which is displayed in real time on the screen.

MECHANICAL CHARACTERISTICS

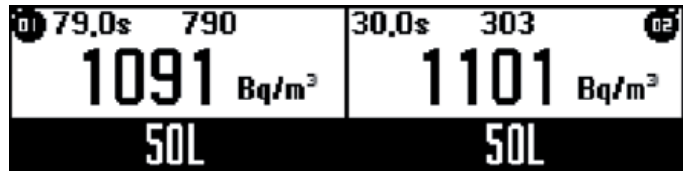
- Width: 186 mm (7.32 in)
- Depth: 260 mm (10.23 in)
- Height: 260 mm (10.23 in)
- Lead shield thickness: 50 mm (1.97 in)
- Total weight: 56 kg (123 lb)
- The stainless steel sample holder can easily be removed and decontaminated
- The slide slot is coated with low friction PTFE for smooth action
- Stainless steel structure

OPTIONS

- Keyboard and memory card option: the operator can add comments for each sample, save it on the memory card and then transfer it on his office PC
- DC option: powered from 10-36V dc. Suitable for portable use on trolleys or in cars/trucks
- PCMCIA flash card reader



The NT200 can also measure paper filters samples from an air-sampling pump. The operator can select between four preset air volumes. The result is displayed in Bq/m³.



ELECTRICAL CHARACTERISTICS

- Standard model: 90-264 V AC, 47-440 Hz
- DC model: 10-36 V DC
- The NT200 complies with the EC standard.

① Nutronic trademark



MIRION
TECHNOLOGIES

Health Physics
Division

Mirion Technologies (MGPI) Inc
5000 Highlands Parkway
Suite 150
Smyrna Georgia 30082
USA
T +1.770.432.2744
F +1.770.432.9179

Mirion Technologies (MGPI) SA
BP 1
F-13113 Lamanon
France
T +33 (0) 4 90 59 59 59
F +33 (0) 4 90 59 55 18

Mirion Technologies (RADOS) Oy
P.O. Box 506
FIN-20101 Turku
Finland
T +358 2 468 4600
F +358 2 468 4601

Mirion Technologies (RADOS) GmbH
Ruhrstrasse 49
DE-22761 Hamburg
Germany
T +49 (0) 40 851 93-0
F +49 (0) 40 851 93 256

www.mirion.com
144703EN-A