

CONTAMINATIE MONITORING



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Partner Bertin Technologies



Bertin Technologies is een wereldwijde leverancier van geavanceerde oplossingen voor stralingsdetectie en milieumonitoring, gespecialiseerd in handmonitoren, persoonlijke elektronische dosimeters, milieumonitoringsystemen en afval- en recyclingbeheertechnologieën. Hun instrumenten zijn ontworpen om te voldoen aan de strenge eisen van nucleaire faciliteiten, emergency response teams en milieu instanties.

Product offering

MINITRACE CSDF - Bertin Instruments



SaphyRAD E Multiprobe - Bertin Instruments



SaphyRAD MS Dom-420 - Bertin Instruments



MiniTRACE S5 - Saphymo





MINITRACE CSDF - Bertin Instruments

MiniTRACE CSDF is a unique multipurpose meter for contamination control, survey, dose rate and X Rays radiation measurement.

The MiniTRACE CSDF is a multipurpose instrument fulfilling the functions of a contamination, survey and dose rate meter. It is designed to improve the detection and the quantification of radiation contamination, making this a frontline tool in the protection against uncontrolled distribution of radioactive material. MiniTRACE CSDF provides several functions and measurement modes such as the dose rate, the activity or the count rate.

With the activity and surface contamination modes, different nuclides can be selected from the inbuilt library. The surface contamination mode is calibrated according to ISO 7503-1. Combined with the right accessories, wipe tests (surface contamination) and food tests (food contamination) can be performed. A mean value mode and a count up mode are provided to increase instrument accuracy.



Datasheet

Radiation type

- Alpha, beta and gamma

Detector type

- Geiger-Mueller pancake, active counter area 15.5 cm², active diameter 44.5 mm, window 2.0 mg/cm², energy compensated

Display unit

- μ Sv/h, cps, Bq, Bq/cm² and Bq/L

Measurement range

- Dose rate: up to 5,000 μ Sv/h (100 mR/h)
- Pulses: up to 10,000 cps (300,000 cpm)
- Activity (depends on the radionuclide): up to 100 000 Bq (999,000 dpm)
- Surface contamination (depends on the radionuclide): up to 5,000 Bq/cm² (30,000 dm/cm²)
- Food: up to 100,000 Bq/l (1,000,000 pCi/l)

Gamma sensitivity

- 4.3 cps/ μ Sv/h

Energy Range

- 26 keV to 1.25 MeV, lid has to be closed

Sensitivity

- Co60: 0.41 cps/Bq/cm²; C14: 1.65 cps/Bq/cm²; Sr90+: 10.65 cps/Bq/cm²; Am-14: 4.19 cps/Bq/cm²; Cl36: 9.57 cps/Bq/cm²; Cs137: 11.15 cps/Bq/cm²; U238: 4.19 cps/Bq/cm²; I131: 9.71 cps/Bq/cm²

Display

- 6-digit LCD display, plus 5-digit alpha numeric display for alarm- and status messages

Grid

- 0.8 stainless steel, 80% transparency, easily removable

Integration time

- Automatic, with count up mode adjustable

Energy supply

- 2 Mignon batteries (type: LR6, AA, MN 1500) 1.5V

Battery autonomy

- Up to 2,000 h

Built-in sensors

- IR-interface for software communication



Benefits

Easy and fast monitoring

- MiniTRACE CSDF is easy to use (2 buttons interface) and provides a very fast response time (1sec.). It can also be set up with the optional DataVIEW software.

All-in-one survey meter

- MiniTRACE CSDF allows multipurpose measurements for dose rate H*(10) (μ Sv/h), count rate (cps), activity (Bq), surface contamination (Bq/cm²) and food contamination (Bq/L). Radionuclide can also be selected.

Designed for harsh environments

- MiniTRACE CSDF is compact and robust with its strong housing protected with a rubber boot. It is suitable for long time operations (battery lifetime: 2,000 h).

Technologies

MiniTRACE CSDF is a unique multipurpose meter for contamination, survey, dose rate, X Rays, food and wipe test measurements. It is equipped with a 15.55 cm² Geiger-Mueller pancake detector and a 0.8 mm stainless steel grid. In addition to the verification of contamination, it is ideally suited to measuring the environmental dose rate equivalent (H*(10)).

MiniTRACE CSDF displays values in cps, µSv/h, Bq, Bq/cm² and Bq/L. For the Bq and Bq/cm² modes, the user can select different nuclides with built in nuclide specific calibration library (Cs137, Am241, I131, Sr90, U238, C14, Cl36, Co60).

The Bq/cm² mode (for surface contamination) is calibrated according to ISO 7503-1. MiniTRACE CSDF offers a special mode for food measurement: it measures the activity level found in the liquid or smashed food, with a state-of-the-art food measuring kit.

Accessories

- Protective rubber cover (included)
- Communication kit (incl. DataVIEW software and IR transceiver)
- Transparent plastic protection

- Belt pouch
- Suitcase (Pelicase)
- Wipe test kit

- Food measuring kit
- Emergency case
- Pressure-tight container for air transport



SaphyRAD E Multiprobe - Bertin Instruments

SaphyRAD multiprobe alpha & beta contamination meter has been developed to meet all needs of contamination control for multiple markets such as the nuclear and NORM industries, medical structures & first responders, thanks to its integrated nuclide library. Its ergonomic interface and design have been especially conceived for use even by non-specialists.



SaphyRAD's wide range of contamination probes combined with its specific algorithm allow for a very fast and reactive detection. Depending on the probe, the operator can either assess small or large areas to detect alpha, beta/gamma or alpha & beta/gamma radioactive contamination. All data can be stored on an SD card for measurement recordings.

SaphyRAD E advantages

- user friendly embedded alarm & distance control indicator
- wide range of compatible probes
- adaptative nuclide library
- versatile for contamination & measurement operations
- ruggedized for harsh environment

[SaphyRAD E](#)

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SaphyRAD MS Dom-420 - Bertin Instruments

SaphyRAD MS is the latest multiprobe survey meter designed for operation in harsh environments such as military fields and first responders.



Together with the probes, SaphyRAD MS allows to cover most of the needs of first responders. SaphyRAD MS associates a wide range dose rate meter and external smart probes for source and hot spot search and contamination measurement. SaphyRAD MS includes a simulation mode which allows to train the users with high reality without the use of radioactive sources. Special care has been taken in the design of man machine interface for quick use by non radiation specialists.

SaphyRAD MS features

- designed for operation in harsh environments
- high resolution and large color LCD display
- built in simulation function for training
- designed for use with CBRN protective clothing
- built in GPS
- specific algorithm for very fast and reactive detection
- wide dose rate range 0.05 $\mu\text{Gy/h}$ to 10Gy/h
- comprehensive external smart probes for source search and multiple contamination measurement specially designed for use by non radiation specialists

[SaphyRAD MS](#)

[SaphyRAD MS probes](#)

Contact our PEO product specialist.

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Radiation Safety > Contaminatie monitoring

MiniTRACE S5 - Saphymo

The MiniTRACE S5 is a contamination meter designed to improve the safety of workers in all different kinds of fields. It's very sensitive and responds within a second.

Because the device is very user-friendly, it's very easy to detect possible spots of contamination in the controlling areas. The 6-digit display shows the activity value with a fixed decimal point.

The MiniTRACE has four pre-programmed alarm thresholds, but users can also adjust these to their personal needs.



This contamination meter is not only easy to use, but it's also very fast. If the device detects something, it will respond within a second. The device is applicable to many fields, like nuclear power plants, research centers, hospitals, police, fire brigades and the army.

BENEFITS OF THE MINITRACE S5

- High sensitivity
- Fast response time
- Compact and robust
- Ergonomic design
- Easy two-button operation
- 4 alarm thresholds
- Visual and audible alarm output
- Infrared interface
- X-ray sensitivity of >5 keV

If you want to read more about dose rate meters from Bertin, visit [their website!](#)

If you are in doubt about what MiniTRACE suits you best...

Read this!



Partner **Tracerco**



Tracerco is een betrouwbare wereldwijde leverancier van oplossingen voor stralingsmonitoring en biedt gespecialiseerde instrumenten voor contaminatiemonitoring, dosistempo meting en persoonlijke dosimetrie. Hun technologieën worden op grote schaal toegepast in de medische sector en ondersteunen ziekenhuizen, radiologieafdelingen en nucleaire geneeskunde bij het handhaven van de veiligheid en het voldoen aan wettelijke normen.

Product offering

Contamination Monitor T401 - Tracerco



Contamination Monitor T403 - Tracerco





Contamination Monitor T401 - Tracerco

De Contamination Monitor T401 van Tracerco is nuttig op meerdere gebieden, zoals olie en gas, medische en life sciences, kernenergie, CBRNe en hulpdiensten, NDT, productie, en de milieu- en afvalbeheerindustrie.

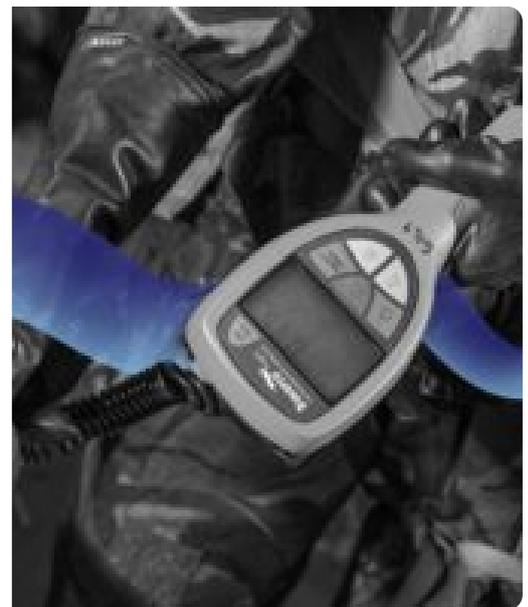
De besmettingsmonitors van Tracerco profiteren van hoogwaardige functionaliteit met extra omgevingstolerantie. Ze zijn ook zeer kosteneffectief.



Dit is geen intrinsiek veilige besmettingsmonitor, maar deze besmettingsmonitor is wel bijzonder geschikt voor de detectie van radioactieve besmetting. Dit omvat kernenergie, landsanering, onderzoek en ontwikkeling en medicijntoepassingen.

VERONTREINIGINGSMONITOR T401 EIGENSCHAPPEN

- Operationele betrouwbaarheid
- Directe oppervlaktevareidheidsmodus
- Piekwaarde
- Dubbele staafdiagrammeterweergave van 0-1000 cps
- Digitaal numeriek display biedt automatische directe vertaling naar Bq/cm² voor meer dan 14 voorgeprogrammeerde nucliden, natuurlijke en door de mens gemaakte
- Afneembare stralingssonde met maximaal 1,5 meter verlengkabel
- Optionele verlengarm voor het inspecteren van verontreinigd leidingwerk, afvoeren, laboratoriumvloeren enzovoort
- Sonde stapsgewijs 90° draaibaar voor interne oppervlaktemetingen
- Achtergrondverlichting
- Hoorbare respons met instelbare alarmdrempels
- Robuuste nylon 6/6 constructie en modulair geïntegreerde elektronica zorgen voor een instrument voor alle weersomstandigheden
- Minimale service- en onderhoudskosten



[Wilt u alle monitoren van Tracerco zien, kijk dan eens op de website van onze partner!](#)

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Contamination Monitor T403 - Tracerco

The Tracerco™ T403 Radiation Contamination Monitor is designed to meet the challenge of combining the operational reliability under adverse conditions with excellent sensitivity and robust construction.



Specifications Contamination Monitor T403 from Tracerco

Contamination Monitor T403 - Tracerco



Partner **Ludlum Medical Physics (LMP)**



Ludlum Medical Physics (LMP), een divisie van Ludlum Measurements, Inc, is gespecialiseerd in oplossingen voor stralingsveiligheid en kwaliteitsborging (QA) van medische beeldvorming. Hun uitgebreide productlijn ondersteunt

professionals in de gezondheidszorg bij het handhaven van hoge normen voor patiëntveiligheid en diagnostische nauwkeurigheid in verschillende medische disciplines.

Product offering

Model 26-1 Frisker with integrated GM Pancake - Ludlum



Frisker with Geiger Mueller Pancake Model 26 - Ludlum



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Model 26-1 Frisker with integrated GM Pancake - Ludlum

This Frisker with Geiger Mueller is the more advanced version of Ludlum's popular [model 26 frisker](#).

The Model 26-1 Frisker with integrated GM Pancake, is an ergonomically designed, rugged Geiger-Mueller (GM). It incorporates electronics and a time-tested GM. This product is very user-friendly because the design is simple. The device only has three buttons, which are placed so the user can operate them with one hand.

Ludlum designed this frisker in order to check for alpha, beta and gamma contamination at either objects or people.



FRISKER WITH GEIGER MUELLER BENEFITS & FEATURES

- Integrated, lightweight, ergonomic design
- Water-resistant
- Employs standard 15.51 cm² GM pancake detector
- Can display in:
 - mR/hr
 - μSv/h
 - dpm
 - Bq
 - cpm
 - cps
- Dead-time correction (DTC) allows gamma measurements up to 500 mR/hr
- Simple three-button operation
- Automatic display backlight
- Bright red flashing alarming LED

If you want to read more



The model 26-1 frisker has three different modes of operation: rate, max and count.

RATE

The device will display current radiation levels in terms of Rate.

MAX

The device captures the highest rate detected, so it's possible to determine a peak rate during frisking operations, also when the display is not visible.

COUNT

The device allows the user to perform a survey for a predetermined time.

The user-selected units can display results in a measurement of: scaler counts, activity, time-averaged rates or even accumulated dose.

Model 26-1 Overview <https://youtu.be/ijaxlBZjdbE&t=345s>



All Model 26-1 options and features



SCAN TO VIEW
VIDEO

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Frisker with Geiger Mueller Pancake Model 26 - Ludlum

This Frisker with Geiger Mueller (GM) 26 is the simpler version of Ludlum's model 26-1.

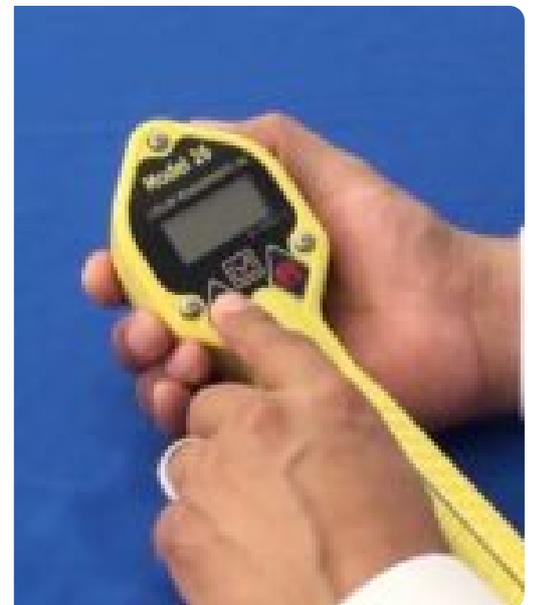
Ludlum designed this device especially for frisking people and objects for alpha, beta and gamma contamination. This cable-less device consolidates the electronics and the detector into one ergonomic device. The frisker has a standard 15,51 cm² GM pancake detector and a large LCD display.



FRISKER WITH GEIGER MUELLER 26 FEATURES & BENEFITS

- Integrated and lightweight design
- Water resistant
- Ratemeter, peak and scaler operating modes
- Simple two-button operation
- Count rate and scaler alarms
- Automatic LCD backlight activation
- Single-hand use

Another useful feature is the MAX-mode. This mode captures the highest or peak count rate. This feature is especially useful when the display is not visible for the user.



Model 26 Overview <https://youtu.be/ybLKYksin6s>



All model 26 options and features

Model 26 Tutorial <https://youtu.be/uj7aT7ozA50>



SCAN TO VIEW VIDEO



SCAN TO VIEW VIDEO



Model 26 tutorial

For more information from our partner, visit [this page](#).



Partner **Overige**

Product offering

**MiniTRACE Family -
Saphymo**



MiniTRACE Family - Saphymo



The MiniTRACE Family (Saphymo) is a range of dosimeters, dose rate meters and contamination meters for Alpha, Beta, Gamma and X-ray detection. The Minitrace is designed to improve the safety of the workers in the control areas of nuclear power plants, reprocessing plants, research centers and hospitals.



MiniTRACE Family features:

- fast response time
- integration time adapted to change of measure value
- additional 'mean value mode' for precise measurement of low radiation levels
- long battery lifetime
- four alarm threshold settings
- audible pulse output
- infrared interface