



POLIMASTER[®]



Innovating Radiation Detection Technologies Since 1992

FOOD CONTAMINATION METER

PM1406

Food contamination meter PM1406 is a small-size device for measuring radioactive contamination level in food (including liquid). Household radiation food control is possible for non-professionals now. Both for household and shops, restaurants and cafes it is simple to detect radiation in food with the help of PM1406.

- Our food radiation detector is a perfect combination of functionality, simplicity and affordable price.
- High-sensitive detector is designed for radionuclide specific activity measurement in food. Sampling has minimum and simple requirements. PM1406 is made as Marinelli Container trivet. Plastic sample container (0.5 l. volume) perfectly covers and surrounds detector which makes it possible to determine contamination level most effectively. Optionally, Lead Box might be used additionally to shield up and encapsulate the plastic sample container to increase detector's sensitivity and reduce measuring time.

- USB connection plug (desktop, netbook and tablet)
- Special software package are designed for control of detector, test results visualization and measurement storage. Extremely user-friendly interface makes PM1406 a perfect solution for everyday use. No special computer skills and knowledge about radiation needed.

Thanks to PM1406 software user can not only see current food sample test results, but also can get food safety recommendations. All the received measurements are thoroughly compared to measurement standards in the pre-installed data library. Pre-installed data libraries can easily be upgraded with additional libraries. All measurements can be saved for further screening and analysis with the help of software.

- Easy upgradable software is connected and downloaded automatically while PM1406 user registration process via Internet. Flexible and easy customized setup helps to create user's own personalized most frequently used food types pattern libraries, with fast and easy change for language, measurement (Sv/R) parameters, etc.

Features

- Multi-language user-friendly interface
- Easy to operate icon menu
- Different contamination levels for various food types
- Additional food sample plastic containers
- Rugged and impact-resistant for harsh using conditions body design. Easy detachable and dishwashing machine ready plastic sample can.

MEASUREMENT



USB



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SPECIFICATIONS

Detector	CsI(Tl)
Specific and volume activity measurement of the samples	¹³⁷ Cs ⁴⁰ K
Measured sample density range	0.2 - 1.6 g/cm³
Minimum detected activity	¹³⁷ Cs - 10 Bq/kg ⁴⁰ K - 100 Bq/kg
Specific and volume activity error for ¹³⁷Cs in the range	More than 300 Bq/kg: ± 30 % Less than 300 Bq/kg: ± 50 %
DER indication range	relative to 0.662 MeV (¹³⁷Cs) - from 0,1 µSv/h to 10 µSv/h
Maximum permissible intrinsic relative error of DER measurement	relative to 0.662 MeV (¹³⁷Cs) - no more than ±30%
Energy range for gamma-radiation	150 - 3000 keV
Operation mode setup time, no more	1 min
PC connection	USB

Design and specifications of the device can be changed without further notice.



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