# **Lab Scout**



### Gamma radiation detector with nuclide identification



# **Applications:**

- to determine the weight-specific activity of natural and artificial radionuclides in material samples
- for monitoring measurements of food, building materials and ash from biomass power plants and much more

#### **Features:**

- spectroscopic resolution and a measuring range from 25 keV to 3 MeV
- 360° lead shielding to reduce background radiation and lower detection limits
- editable nuclide library, nuclide lists with up to 16 emission lines
- built-in balance to determine the weight-specific activity of the nuclide in the sample

#### Closer to your application

## Gamma probe

**Detector type** sodium lodide (NaI(TI)) with integrated PMT and

high voltage power supply, scintillation cristal 2" x

2" energy range 25 keV - 3 MeV

resolution < 7,5 % (7 % typ.) @ 662 keV

**Efficiency** net count rate 1100 cps / (µSv/h) based on Cs-137

Max. count rate 100.000 cps

Measuring range 0 ... 15 μSv/h (Cs-137)

**Spectrum** 1024 channels

Measurement/Analysis identification of up to 16 peaks (nuclide list)

> creation of various nuclide lists from editable library determination of weight specific nuclide activity with flexible applicable efficiency calibrations

**Stabilization** electronic stabilization of temperature

Peak-Pickup by PSV algorithm

#### General

Scale 0...2,5 kg

Measuring cycles 1 min, 5 min, 15 min, 0,5 h, 1 h, 4 h, 12 h,

**Data storage** 2 GB SD-Card for more than 780.000 data records

Operation/Display 1 button, signal lights (red, yellow, green), 4x20

**Acoustic Signal** 80 dB

Interface **USB** 

Software Labs Scout Works (analysis, calibration, configuration)

#### **Environmental conditions**

5...35 °C, Temperature

Rel. humidity 0...95 %, non-condensing

**Power supply** 15 V / 250 mA AC/DC adapter

**Dimensions** 200 mm x 220 mm x 520 mm

Weight approx. 68 kg with lead shielding





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