

DYMO

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# SPECIFICATION SHEET EL 25 FOODSTUFF COUNTER WITH HIGH-SENSITIVE NAI DETECTOR

During nuclear accidents, e.g. in Fukushima and Chernobyl, large quantities of radioactive material can be released into the environment and spread over large areas. Long half-lives (e.g. Cs-137: >30 years) and complex decay chains mean that contamination can end up in food and drink, from fish to mushrooms and drinking water. In these cases, you may need to do checks with a high-sensitive detection system. The EL-25 foodstuff counter has been developed fo this purpose. The EL 25 with its integrated, pre-calibrated Nal detector, is a reliable and affordable solution to ensure that food is free from radioactive contamination.

HOLD

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#### **Benefits**

- Small, economic measurement system
- · Shielded Nal detector
- · Shielded sample container
- $\cdot$  Easy to use
- Small size enabling easy relocation
- Widely used after the Fukushima incident

## **Key Figures**

DYMO LabelWriter SE300





### **Product Description**

Radioactive pollution in the environment after a nuclear accident effects the eco-system, the wildlife, the farming economy and can lead to radioactive contamination of food. The EL 25 Foodstuff Counter is an easy-to-use, sensitive and competitively priced system to ensure that measured food is free from contamination. Two easy-to-fill 400 ml plastic beakers are provided for both solid and liquid foods. For the measurement, the beaker is placed inside shielding and on top of a sensitive shielded Nal scintillation detector. The microprocessor-based unit clearly displays the measured radioactivity and gives an optical and an acoustic output, if the user-defined alarm thresholds are reached. The EL 25 Foodstuff Counter has proven and established itself in daily use in Japan following the Fukushima incident.

### **Performance Characteristics**

- · Suitable for solid and liquid foods and other products
- $\cdot$  User-defined alarm thresholds: optical and acoustic alarm
- $\cdot$  Calibrated with certified Cs-137 and I-131 sources other calibrations possible
- Measurement time: fixed or automatic calculation based on required LoD
- Automatic background correction
- · Measurement display in cps, Bq, Bq/l, Bq/kg
- Successful and wide-spread use in Japan after the incident in Fukushima
- Different detector shielding possible for weight optimization (steel, lead)
- Sample container shielded separately (13 mm lead) for reduced background
- $\cdot$  Optional printout of measuring results on label

## Product Specifications

Analysis and display	Microprocessor-controlled electronics - Data export possible
Weight	7.5 kg (steel shielding), 11.6 kg (lead shielding)
Dimensions	175 x 200 x 80 mm (L x W x H)
Sample	Shielded 400ml plastic beaker
Detection threshold	< 35 Bq/l (lead shielding), <50 Bq/l (steal shielding) - 400 ml, 999 s measuring time
Power supply	230 V for static use and battery charging and mobile use via battery
Operating temperature	0 °C - 40 °C
Optional equipment	Label printer, scales, test sources





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