DoziWood

Suitable for environmentally friendly company



DoziWood offers optimized protection from contaminated (Cs-137) wood chips entering the heating supply chain with Thermo Fisher Scientific[®] Safety-Guard Series II radiation detection system.

The system enables the company to meet regulatory requirements at various utilization levels of ash-containing Cs-137 isotope. (>1 Bq/g; >10 Bq/g).

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Alarm threshold (Wood chips)

1 sigma (65%) 2 Bq / kg ± 2
2 sigmas (95 %) 4 Bq / kg ± 2

Measurement time

• 60 sec.

Object of measurement:

- 90 -100 m³ wood chip trucks
- >12 m³ Bottom ash containers
- >12 m³ Fly ash containers

Compliance with statutory required levels for ashes (Cs-137)

- >1 Bq / g
- >10 Bq / g

Administration levels

- User
- Administrator

Woodchip and ash registration journal (Yes) Fully automated measurement (Yes) Traffic control:

- Traffic light
- Lifting barrier





- 60 sec. measurment time
- Fully automatic
- Extremely low alarm treshold







Outdoor equipment

Detector Type

• Large area plastic scintillators for the efficient detection of gamma radiation

Detector Volume

• 25L per panel

Detectors

• max 4 panels

Radiation Type

• Gamma

Panel housings

• UV-stabilized PE material that is corrosion free even under demanding conditions

Traffic control

- Traffic light
- Lifting barrier

Sensitivity

• approx. 150000 cps/μSv/h per panel (Gamma)



Indoor equipment

DoziWood Control Unit

The detector panel array communicates with the electronics in the operator's room via a reliable RS 485 data bus over up to 1000 m. The modern design of the electronics comprising our controller model **DoziWood**.

DoziWood system technical specifications

Operating conditions for the electronics in the operations room	Ambient temperature range: 0 °C 40 °C, (32 °F104 °F) Relative air humidity: 10% to 90% (not condensing)
Operating conditions for the equipment at the detector array	Ambient temperature range: - 4060 °C, (- 40140 °F)
Measured value	Gamma radiation from approx. 40 keV
Available options	Video camera (LAN), protocol printer, extra, lead shielding, alarm devices (sound & light), gamma test adapter (panel and system performance test), stanchions & installation.

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