DSP 001- DSP 002

γ detector

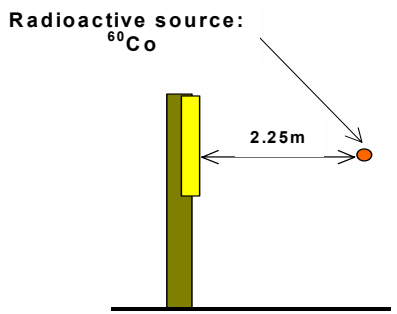
DSP 001 and **DSP 002** are Gamma plastic scintillation detectors. Connected to a CTM or ANDREA processing unit they allow detection of radioactive sources on staff, containers or trucks entering or leaving nuclear or industrial sites. They can also be used to control vehicles at boarder crossing points, in waste disposals, incinerators…

Technical characteristics

Minimum detectable activities

A control carried out in the following conditions:

- background: 70 nGy/h
- measuring time t = 1 s
- false alarm rate = 0.15%
- detection probability = 97.5%



Allows detection of 110 kBq of 60Co equivalent for DSP 001 and 75 kBq of 60Co equivalent for DSP 002 .

Detector: plastic scintillation detector with low noise photomultiplier

DSP 001: 500 x 100 x 50 mm

DSP 002: 1000 x 100 x 50 mm

Energy range: from 50 keV to 2 MeV

Occupancy sensors: infrared cell CIR 305 / DSP 001 or inductive magnetic loop BDM 303

Housing: aluminium

Watertightness: IP 56

Weight: DSP 001: 30 kg ; DSP 002: 40 kg (without lead shielding)

Dimensions:

- **DSP 001:** L: 91 mm x dia: 15.5 mm
- **DSP 002:** L: 141 mm x dia:15.5 mm

Working temperature: -10 °C to +50 °C (larger range available as an option)

Option: lead shielding 2.5 cm thick

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