



FEATURES

Detects surface contamination by α emitting radionuclides on small equipments used in nuclear active work areas.

- Compact and robust design
- Available in shielded version
- Easy to use with minimum training

CPO Tool Monitor

The tool monitor (CPO) is a stand-alone equipment which main function is to detect the radioactive contamination left on tools leaving any nuclear work area where contamination risks exist. It allows monitoring of various equipment sizes from pens to tools box, or even long size objects such as piping or cable through sequential monitoring check.

The CPO featured a reliable contamination detection as the objects are stationary during the entire monitoring period minimizing the typical errors induced by monitoring through mobile and manual detector. An audible and visual signal is actuated when exceeding a preset threshold.

health physics

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Featuring:



FUNCTIONAL CHARACTERISTICS

Detection is performed by two large plastic scintillators, sensitive to γ rays. Each scintillator is connected to an amplifier/discriminator, providing two separate detection channels.

The pulses output from the detectors are transmitted to a microprocessor which computes:

- Assessment of contamination level
- Calculation of background
- Management of visual and audio signals
- Acquisition of operating instructions

PHYSICAL CHARACTERISTICS

Performances depend on dose rate, level of confidence, measurement time and the isotope concerned.

It is possible to detect less than 140 Bq for ^{60}Co , in a natural radioactive environment, with a measurement time of 10 s and a confidence level of 95%.

ELECTRICAL CHARACTERISTICS

- Power supply: 220 V \pm 15% or 120 V \pm 15%
- Frequency: 50 Hz or 60 Hz
- Consumption: 30 VA

MECHANICAL CHARACTERISTICS

- Outer dimensions: (l x w x h)
650 x 400 x 480 mm (25.6 x 15.7 x 18.9 in)
- Weight: 48 kg (106 lb)
- Protection index: IP55
- Detection volume dimensions: (l x w x h)
350 x 250 x 360 mm (13.8 x 9.8 x 14.1 in)
- Material used: aluminium enclosure, polycarbonate doors and stainless steel lined detection volume

ENVIRONMENTAL CHARACTERISTICS

- Operating temperature range:
+10°C to +45° C (50°F to 113°F)
- maximum humidity: 95% at +45°C (113°F)

OPTIONS

- Roller for long items control
- Table



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