

RADIATION PORTAL MONITOR FOR HOSPITAL WASTE

MHOS HWM-P15

MAIN FEATURES

- *Fast and reliable gamma monitoring of hospital waste*
- *High sensitivity plastic scintillators*
- *Can be fixed directly on the floor without plinths*
- False alarm rate: 1:10'000
- Visualization and saving of threshold-exceeding events
- Alarm column for contamination and malfunctioning warnings
- Available relays for safety devices connection (interlock, alarm indicators...)



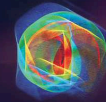
DESCRIPTION

The **MHOS HWM-P15** radiation portal monitor allows to perform automatic contamination controls on the materials passing through its measurement area. It is specifically designed to measure the radioactive contamination level in hospital waste. A luminous and acoustic alarm is activated when the pre-set threshold is exceeded, and a measurement report is generated and saved in the control console (desktop PC).

Each of the two columns hosts a plastic scintillator coupled to the signal processing electronics and a lead shielding for attenuating environmental background.

The **MHOS HWM-P15** continuously verifies the electronics status through a self-diagnosis function. The "health status" of the system, as well as the measurements results, are displayed by the control console and by the alarm column.

The warranty includes a remote assistance service: the monitoring activity can be remotely controlled, using the Ethernet-LAN door of the control console, and the operator can contact ELSE NUCLEAR personnel for on-line service. After the expiry of the warranty, this service is available upon request.



TECHNICAL SPECIFICATIONS

Measurement performances

- Efficiency (Cs-137): 50 kcps/ μ Sv/h (each detector)
- Energy range: 35 keV ÷ 2 MeV
- False alarm rate: <1/10'000

Detector units

- Detectors: Plastic scintillators 1000×150×50 mm
- Number of units: 2
- Volume of each unit: 7,5 l
- Surface of each unit: 1500 cm²

Housing

- Maximum dimensions (WxDxH): 350x1450x220 mm
- Material: Stainless steel, with plexiglass windows
- Protection: IP65
- Lead shielding on external sides: 10 mm

Control console

- Desktop PC
- Autorun at the system start-up
- Main panel indication:
 - Good functioning/alarm status
 - Net measurement
 - Instantaneous count rate chart
- Main settable parameters:
 - Alarm threshold (expressed in cps or in sigma)
- Acquired data chart archive and printing
- Password for parameters setting access

ACCESSORIES AVAILABLE UPON REQUEST

1. Warranty extension from 12 months to 24 months