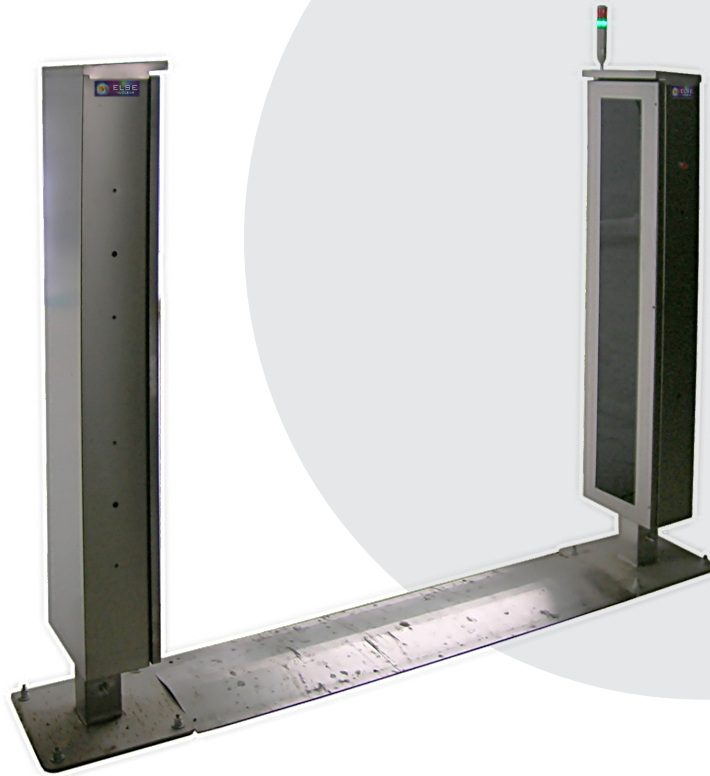




# MHOS P15

## RADIATION PORTAL MONITOR FOR HOSPITAL WASTE



High-sensitivity  
plastic scintillators



Fast and reliable gamma  
monitoring of hospital waste



Installable on the floor  
without plinths

False alarm rate: 1:10'000

Visualisation and saving of  
threshold-exceeding events

Alarm column for  
contamination and  
malfunctioning warnings

Available relays for safety  
devices connection  
(interlock, alarm indicators)

The **MHOS P15** radiation monitor is designed to perform automatic gamma contamination measurements on the materials passing through the transit area defined by its portal-shaped structure.

The main application of **MHOS P15** is to measure the radioactive contamination level in hospital waste.

When the pre-set threshold is exceeded, the system software activates a luminous and acoustic alarm, and generates a measurement report that is saved in the control console (panel PC).

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

The **MHOS P15** continuously checks 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.

## TECHNICAL SPECIFICATIONS

### Measurement performances

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

### Detector units

- Detectors: plastic scintillators 1000 x 150 x 50 mm
- Number of units: 2
- Volume of each unit: 7,5 l
- Surface of each unit: 1500 cm<sup>2</sup>

### Housing

- Maximum dimensions (WxDxH): 350 x 1450 x 220 mm
- Material: stainless steel, with plexiglass windows
- Protection: IP65
- Lead shielding on external sides: 10 mm thick

### Control console

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



*MHOS P15 panel PC control console*

## ACCESSORIES AVAILABLE UPON REQUEST

- Warranty extension from 12 months to 24 months

