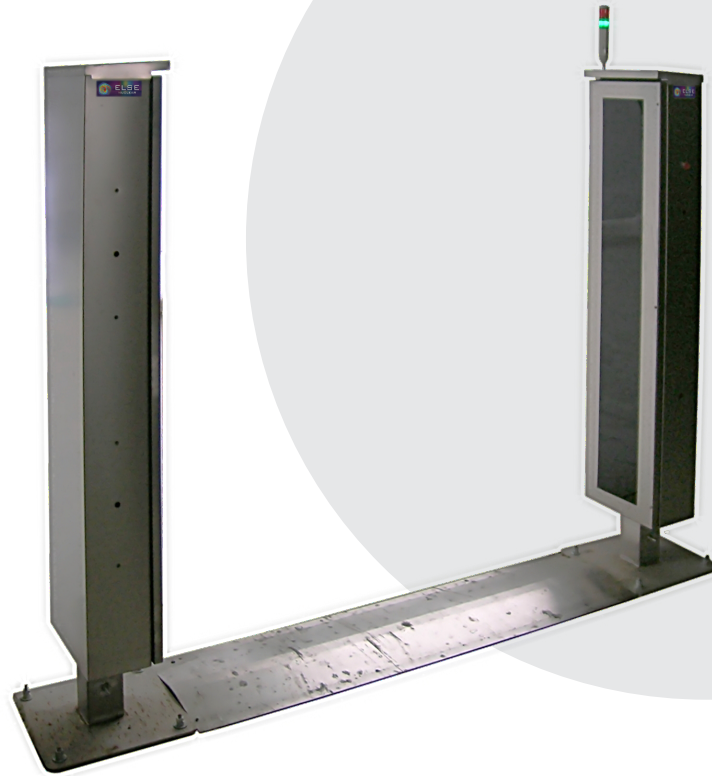




# MHOS HWM-P15

## RADIATION PORTAL MONITOR FOR HOSPITAL WASTE



High-sensitivity plastic scintillators

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)



Fast and reliable gamma monitoring of hospital waste

The **MHOS HWM-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 HWM-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 HWM-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.

According to the requirements or to the monitoring specifications, a desktop PC may be used instead of a touch-screen panel PC.



Installable on the floor without plinths

## 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

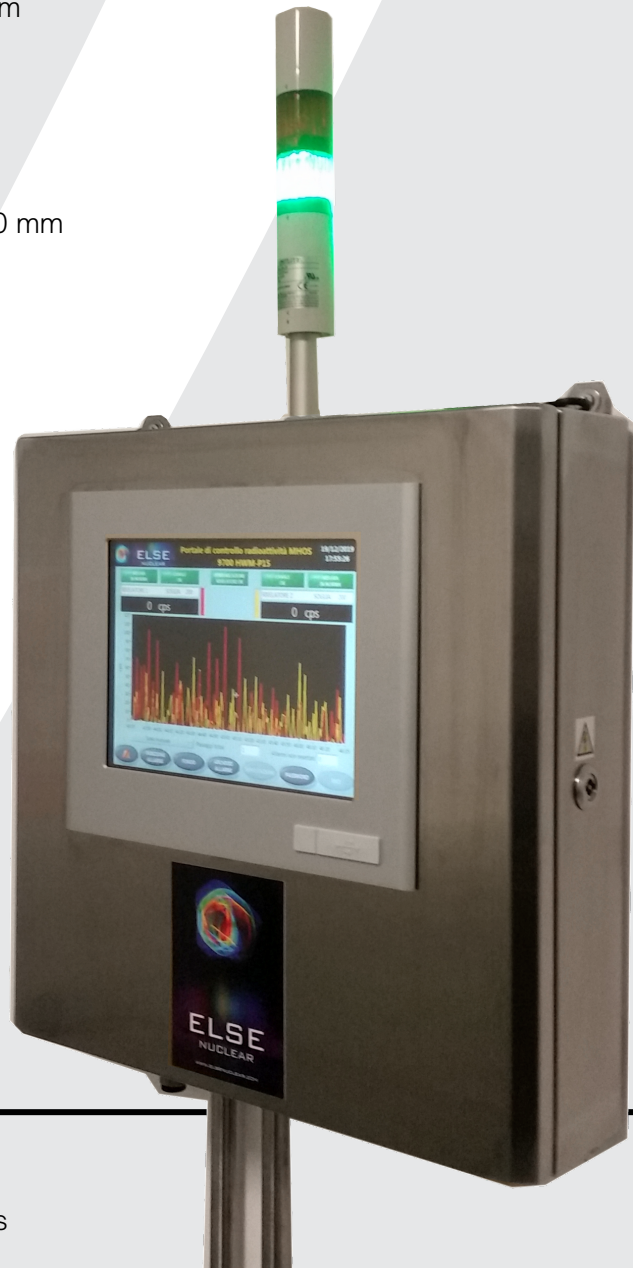
- Detectors: plastic scintillators 1000 x 150 x 50 mm
- Number of units: 2
- Volume of each unit: 7,5 l
- Surface of each unit: 1500 cm<sup>2</sup>

### 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 HWM-P15 panel PC control console

## ACCESSORIES AVAILABLE UPON REQUEST

- Warranty extension from 12 months to 24 months

