

Model HWM-38

Clearance Monitor for Reliable and Precise Detection of Gamma Emitting Radionuclides on Small Items

The Model HWM-38 small article monitor is designed for the measurement and release of small items such as tools, helmets, personal protective equipment, documents, and measuring instruments with a maximum mass of 50 kg (110 lb). This instrument is ideal as an automated release measurement system.

The standard equipment includes:

- 4 gamma plastic detectors, 6 detector option
- 25 mm (1 in.) lead shielding (or 50 mm [2 in.] option)
- Two door interlock system with the option to use one door only
- Integrated scale
- Easy to clean stainless steel housing
- Integrated 12 in. touch-screen display
- Automated measuring process with user guidance
- Multichannel analyzer (MCA) to optimize discrimination of background radiation

The Model HWM-38 provides fast and reliable detection of gamma radiation, based on the latest measurement electronics. With the integrated maintenance modules, the system can be updated continuously to maintain its high performance for every measuring task now and in future.



Key Features

- Unique Detector Housing Design to Reduce Radiation Streaming Effects
- Intuitive and User-Friendly Operating Software
- Export of Measurement/Parameter Data in XML Format via USB
- Nuclide Composition Suggestions from Multichannel Analyzer (MCA)
- Access to Historical Measurement Data via Integrated Database
- Access to Ludlum GmbH Test Tool Software for Detector Analysis

Standards:	The monitor is compliant with the following standards: CE, CSA / UL or EMC, ISO11929, DIN25457
Detectors:	4x gamma plastic detectors (6 detector option) Detector volume: > 4.9 L (0.17 ft ³) per detector (19.6 L [0.69 ft ³] with 4 detectors; 29.4 L [1.04 ft ³] with 6 detectors) Direct connection of each detector to the PC via USB
User Software:	Intuitive operator software with touch-screen display, automated measurement process with user guidance, indications of results and measurement material position on the display. Web based for RP remote access.
Electronics:	Integrated illumination in the chamber, status-LED, interlock-relays with interface to external units
Sensors:	2 door sensors with interlocks
Housing:	Coated steel with stainless steel covers Measuring chamber: stainless steel
Ext. Dimensions:	951 x 657 x 785 mm (37.4 x 25.9 x 30.9 in.) (H x W x D) incl. door handles
Chamber Volume:	281 x 352 x 390 mm (11.1 x 13.9 x 15.4 in.) (H x W x D) 38 L (1.34 ft ³)
Shielding:	Standard: 25 mm (1 in.) lead Option: 50 mm (2 in.) lead
Weight:	Standard: approx. 600 kg (1320 lb) With 50 mm lead: 900 kg (1980 lb)
Power Supply:	24 V-5A via ext. 100 – 240 V, 1.6A power adapter Uninterruptable power supply (UPS) to bridge loss of electrical power



Software screenshots

Support Services

Ludlum GmbH is able to offer a full suite of services from the provision of radiological monitoring products, instrumentation service, maintenance and calibrations to in-house design and expert project management with nearly 60 years of experience.



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