

HWM-550

Free Release Monitor for the automated Gamma-Detection of Barrels

The HWM-550 is Ludlum's medium sized clearance monitor of the HWM series with 550L volume and for up to 600kg of material in one measurement.

The standard unit is equipped with the following features:

- 10 Gamma Plastic Detectors for a complete 4π coverage
- 50mm Lead shielding, 75mm optional
- built-in weigh scale for up to 600kg
- powder-coated steel frame with easy to clean stainless steel lining inside and outside
- automatic conveyor system with electrical driven door
- desk operation with 17"-Touch-Screen Display, keyboard with mouse-trackball, UPS for the protection of measurements and controllers or optional stand-alone control cabinet
- Fully automated measuring process with user guidance
- Nuclide composition suggestion from detector-pulse-analysis, Multi-Channel-Energy-Analyse
- Network capability for remote monitoring and supervision

The HWM-550 allows a fast and reliable detection of Gamma radiation. Equipped with the latest measuring electronics and a built-in maintenance module, it allows optimisation of the system to ensure consistent peak performance.

Key Benefits

- Reduced dead zones: >75% coverage (inner chamber to detector size)
- Intuitive operating software that is easy to use
- High throughput at small footprint
- Export of measurement and parameter data in XML format via USB
- Energy filter settings to optimise discrimination of background radiation
- Integrated UPS for finalising measurements and protecting electronics and controllers during mains power outage
- Stand-alone control cabinet with ergonomically positioned touch operated display
- Access to historical measurement data via integrated database
- Access to LMG test tool software for detector analysis



HWM-550 with Operating Terminal

HWM-550 with Option Sliding Door



Standards:	The Monitor is compliant with the following Standards: CE, CSA / UL or EMC, ISO11929
Detectors:	10x Gamma-Plastic-Detectors Detector Volume ~160Ltr. Direct Connection of each Detector to the PC via USB
User Software:	Intuitive Operator Software with Touch-Screen Display, fully automated measurement process with user guidance, indications of results and measurement material position on the display, Web based for RPO remote access
Electronics:	Status-lights with integrated audio Interlock-Relays with interface to external units
Housing:	Steel frame with stainless steel lining, Front door with special hinges and automated lock Automatic conveyor system for barrels
Ext. Dimensions:	(H x W x D): 2.520 x 1.580 x 2.954 mm ³ (Including conveyor and signal lamp)
Chamber:	Vol.: (H x W x D): 1.100 x 700 x 700 mm ³ , 539 Ltr.
Shielding:	Standard: 50mm Lead Option: 75mm Lead
Sensors:	2 door sensors open/close, integrated weigh scale, safety sensors to avoid access to the moving door area, area sensors to control size of measuring goods
Weight:	Standard: ca. 5.000 kg With Option 75mm Lead: 7.200kg
Power Supply:	230V / 16A / N / PE UPS for controllers and PC integrated (for PC and detectors, not for door motors)



Screenshots of user-software

Additional Options

Ludlum offers a range of additional options to enhance the capabilities of the monitor and are able to tailor the HWM-550 to your specific needs.

- Second door and conveyor on the exit-side
- Additional lead shielding (75mm instead 50mm)
- Camera outside and optional integration of a photo in the measurement result
- Sliding door instead of swing door



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