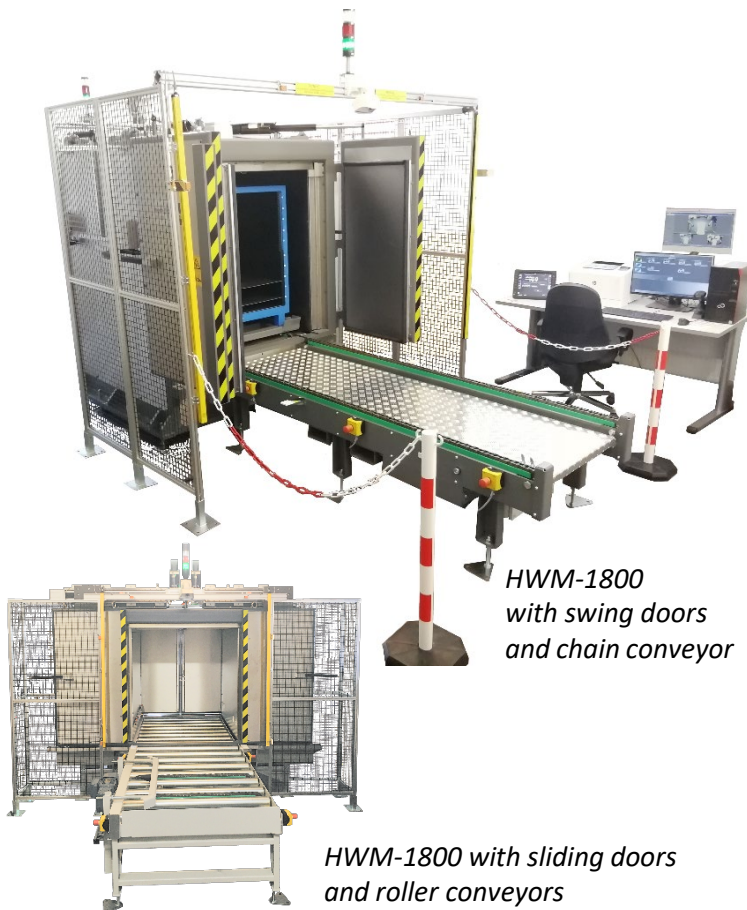


Model HWM-1800

Free Release Monitor for Gamma Detection in Large Items and Containers

The Model HWM-1800 offers clearance capacity in real industrial dimensions, for measuring goods of up to 1,000 kg (2,200 lb) and a chamber of more than 1,800 L (63.5 ft³).



The standard unit is equipped with the following features:

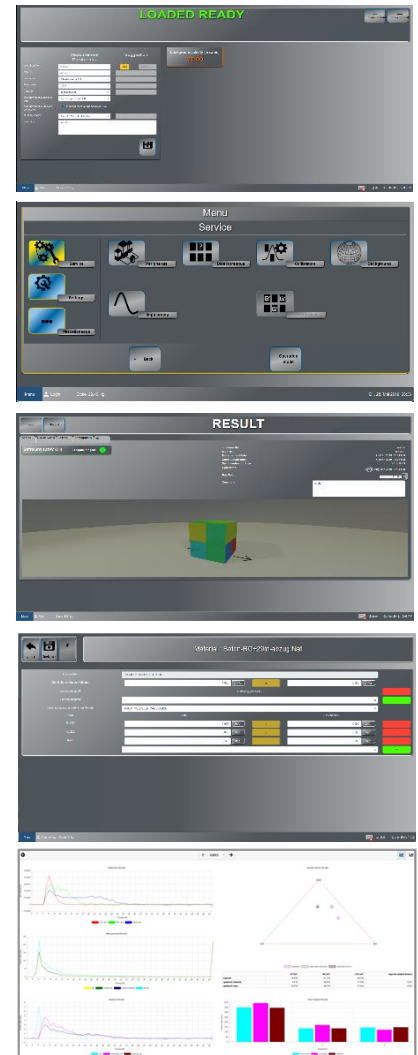
- 24 gamma plastic detectors for complete 4 π coverage
- 50 mm (2 in.) lead shielding
- Built-in weigh scale for up to 1,000 kg (2,200 lb)
- Powder-coated steel frame with easy to clean stainless steel lining inside and outside
- Electrically driven double-wing doors including safety devices to protect people accessing the moving door area
- Electrically driven chain-conveyor with jigs to fix standard grid-boxes and barrels
- Stand-alone control terminal including touch-screen display, PC, and keyboard
- Fully automated measuring process with user guidance
- MCA – Multichannel Analysis
- Spectrum Comparison Module – Checks if there are different energy spectra at different locations in the material being measured
- Network capability for remote monitoring and supervision

The Model HWM-1800 provides fast and reliable detection of gamma radiation on a very large scale. Equipped with the latest measuring electronics and a built-in maintenance module, the system can be optimized to ensure consistent peak performance.

Key Features

- Fully Automated Measuring Process for Very High Throughput
- Fixing Points for Standard Containers on the Conveyor Allow Fast and Easy Loading and Unloading of Different Items
- Reduced Dead Zones: > 70% Coverage (Inner Chamber to Detector Size)
- Intuitive Operating Software that is Easy to Use
- Export of Measurement/Parameter Data in XML Format via USB
- Energy Filter Settings to Track Measurement Results Compared to Nuclide Vector Information
- Access to Previous Measurement Data via Integrated Database
- Access to Ludlum Test Tool Software for Detector Analysis

Standards:	The monitor is compliant with the following standards: CE, CSA / UL or EMC, ISO11929
Detectors:	24x gamma plastic detectors Detector volume: > 319 L (11.3 ft ³) 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:	Integrated illumination in the chamber, status-LED, interlock-relays with interface to external units
Housing:	Steel frame with stainless steel lining, electrically driven front-door incl. area-safety control, electrically driven chain-conveyor
Ext. Dimensions:	2,223 x 1,913 x 1,765 mm (87.5 x 75.3 x 69.5 in.) (H x W x D), without conveyor
Chamber Volume:	1,210 x 1,120 x 1,380 mm (47.6 x 47.6 x 54.3 in.) (H x W x D), 1,870 L (66 ft ³)
Shielding:	Standard: 50 mm (2 in.) lead Option: 75 mm (3 in.) lead
Sensors:	Door-sensors, surrounding area scanner, integrated weigh scale
Weight:	Standard: approx. 11,500 kg (25,350 lb) With 75 mm lead: 15,500kg (34,170 lb)
Power Supply:	230 V / 16 A / N / PE Uninterruptable power supply (UPS) to bridge loss of mains electrical power for controllers and electronics



Screenshots of User Software

Additional Options

Ludlum offers a range of additional options to enhance the capabilities of the monitor and can customize the Model HWM-1800 to your specific needs.

- Second door and conveyor on the exit-side
- System integrated in a 10 ft. or 20 ft. container (see also Model HWM-1800C)
- Additional lead shielding (75 mm [3 in.] instead of 50 mm [2 in.])
- Integration of a camera for live view and for picture stored in the report
- Roller or chain conveyor
- Swing or sliding door



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