

SOLID WASTE MONITOR

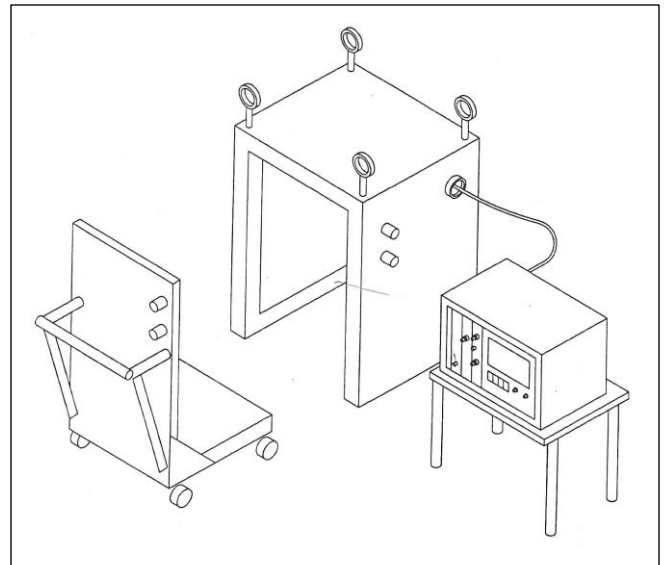
Model ~ SWM-2021

FEATURES:

- WIDE RANGE GAMMA DETECTOR
- FRONT LOADING
- LOAD CELL SCALE
- LARGE VOLUME SCINTILLATOR DETECTOR SYSTEM
- 6 PLASTIC SCINTILLATION DETECTORS – 1 EACH: TOP, BOTTOM, 4 SIDES
- BAGS OR 55 GAL DRUMS/BARREL, UP TO 1,000 LB
- 2" LEAD SHIELDING IN ALL DIRECTIONS
- SENSITIVE DOWN TO 500 kBq (13.5 nCi)
- DISPLAY: TOTAL SAMPLE ACTIVITY
 - ACTIVITY PER POUND (kg)
- BACKGROUND SUBTRACTION
- USER SETTABLE DISPLAY
 - nCi or nCi per lb or kg
 - Bq or Bq per lb or kg
- ON BOARD ARCHIVE AND RETRIEVAL
- USB & ETHERNET PORTS



SWM-2021-E ELECTRONICS



SWM-2021- LARGE VOLUME SCINTILLATION DETECTOR UNIT

APPLICATION:

Measure wide range Gamma contamination in containerized waste bags, drums, or barrels.

SYSTEM INCLUDES:

- Electronics & Digital Display
 - Wheeled Front Loader Platform
 - Light Tight Unit
 - Large Capacity Detection System – Accepts Bags or 55 Gallon Drums
 - User Settable Alarms
 - Shielding for Detectors
 - Load Cell Scale
 - Power, Bias Supply
 - User Settable: Detection Timer
- Standard 1-3 minutes or Custom Measurement Time Limit



TECHNICAL ASSOCIATES
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SYSTEM DESCRIPTION:

Ease and Safety of Unloading and Final Placement of SWM-2021 Detection Unit:

- (4) lifting eyes for easy placement of SWM-2021 Detection Unit
- Adding shielding after final placement of SWM-2021 Detection Unit reduces carrying weight

Loading Sample into SWM-2021 Detection Unit

Sliding Load Platform:

- Platform: Mounted on (4) Four Wheeled Machinery Skates – provides easy mobility for safe sample loading
- Built-in Load Cell Scale
- Lead Shields
 - Welded steel housing for 2" lead or 2" solid lead equivalent. Supplied empty for local filling with solid lead or lead sheets.
 - Front Panel
 - Bottom Panel
- Plastic Scintillators
 - Front Panel
 - Bottom Panel
- Quick Connect detachable cables – brings signal from Sliding Load Platform detectors to main detector system
- Front panel overlaps opening cavity of main system to maintain low background for entire system.

Detection Unit:

- Welded Steel Construction
- Interior Panels are Thin Face Stainless Steel - allows easy decontamination.
- Large volume and surface area of plastic scintillators provides high sensitivity and complete 4π measurement of total sample activity.
- Load Cell Scale provides activity per pound (kg)

Electronics:

- Digital Display – Optional Touchscreen
- Display - User Settable:
 - nCi or nCi per lb or kg
 - Bq or Bq per lb or kg
- On Board Archive and Retrieval
- USB and Ethernet Ports – Computer Interface
- AC Operation
- Quick Connect Ports for detectors and cables.

ELECTRONICS - SWM-2021-E:

Power: 115/230 V
Monitor: Digital Color Monitor
Cables & Connectors: ALL Included



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Case: Easy Clean

ALARMS (User Settable): Total Activity
Activity by Weight (Specific Activity)
High Background
Sample Overweight
Loss of Signal

Activity by Weight Settings: (Specific Activity) Typical: ** Low – 5 kg – 0.5 kBq (13.5 nCi)
(Requires longer count time)
High – 1,000 lb – 45.4 kBq (1,225 nCi or μ Ci)

Typical High Alarm Settings: 100Bq/kg

DETECTOR:
SWM-2021: 6 Plastic Scintillation Detectors
Dimensions – Top & Bottom: (2) 12" H x 24" W x 2" D (30 cm x 60 cm x 5.08 cm)
(2) Sides, (1) Back, (1) Front (4) 12" H x 36" W x 1.5" D (30 cm x 91.4 cm x 3.75 cm)

CHAMBER:
Volume: 14 feet³ (570 liters)

SHIELDING: Welded steel housing for 2" of lead sheets or 2" poured solid lead or 2" lead shot..
Supplied empty for local filling with solid lead or lead shot.

Main Detection Unit: (4) Total: (2) Sides, (1) Top, (1) Back
2" Chamber for Lead Shielding

Platform Loader & Front: (2) Total: (1) Front Panel, (1) Bottom of Slider Platform
2" Chamber for Lead Shielding in Front Panel and in Bottom

MEASUREMENT RANGE:
Gamma Energy Range: 50 KeV to 2.0 MeV

ENVIRONMENT: 32° F TO 100° F (0° TO 38° C)

REFERENCE RADISOTOPE: Cs-137

LOAD CELL SCALE: Built into Loading Platform.
Accommodates up to 1,000 lbs (454 kg)

WEIGHT AND DIMENSIONS:
Detection Cavity:
Detector Cavity: 45" H x 28" Deep x 28" D
Unit Weight: 500 lbs Without Lead Fill

Shielding:

Electronics:
SWM-2021-E 21" W X 11" H X 15.5" D
Weight: 25 lbs



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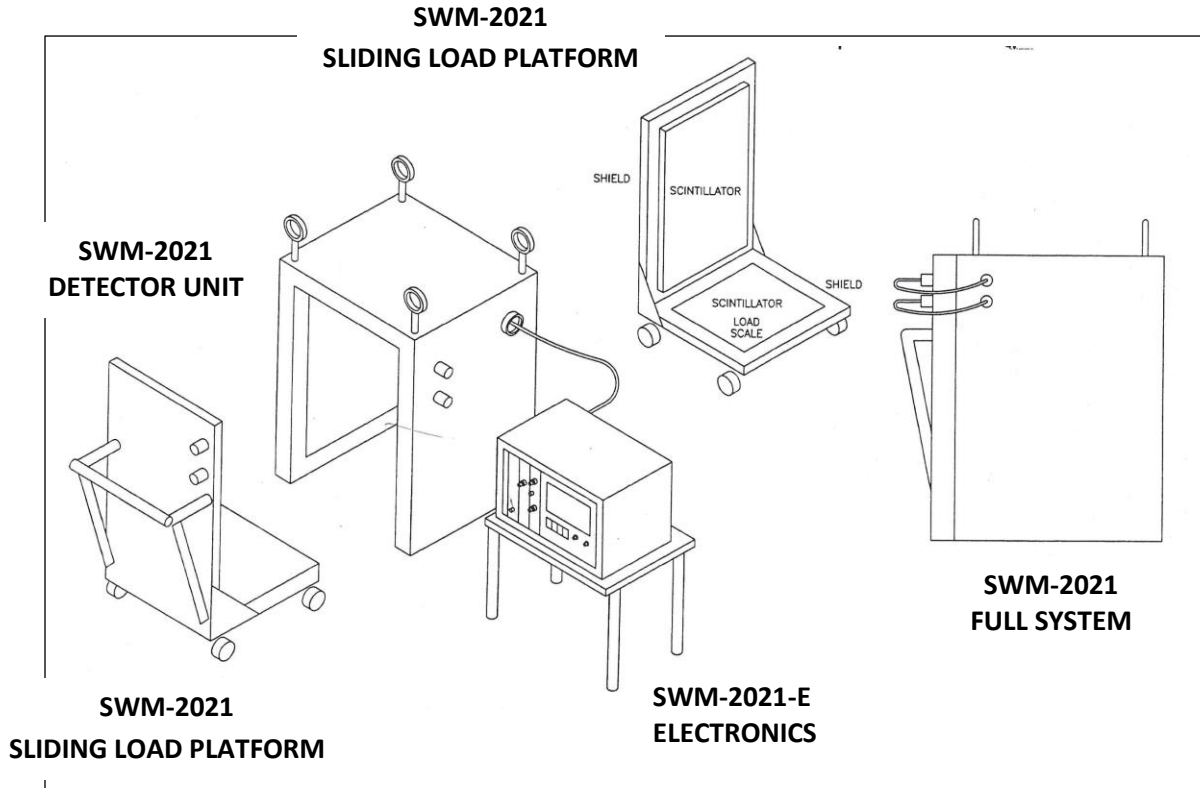
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OPTIONS:

- Shielding: Sufficient lead shot or sheets
(Source locally or from technical Associates. Shipped separately.)
- Display: Touch screen monitor
- Container: Open top plastic container for loose samples



SWM-2021 SYSTEM



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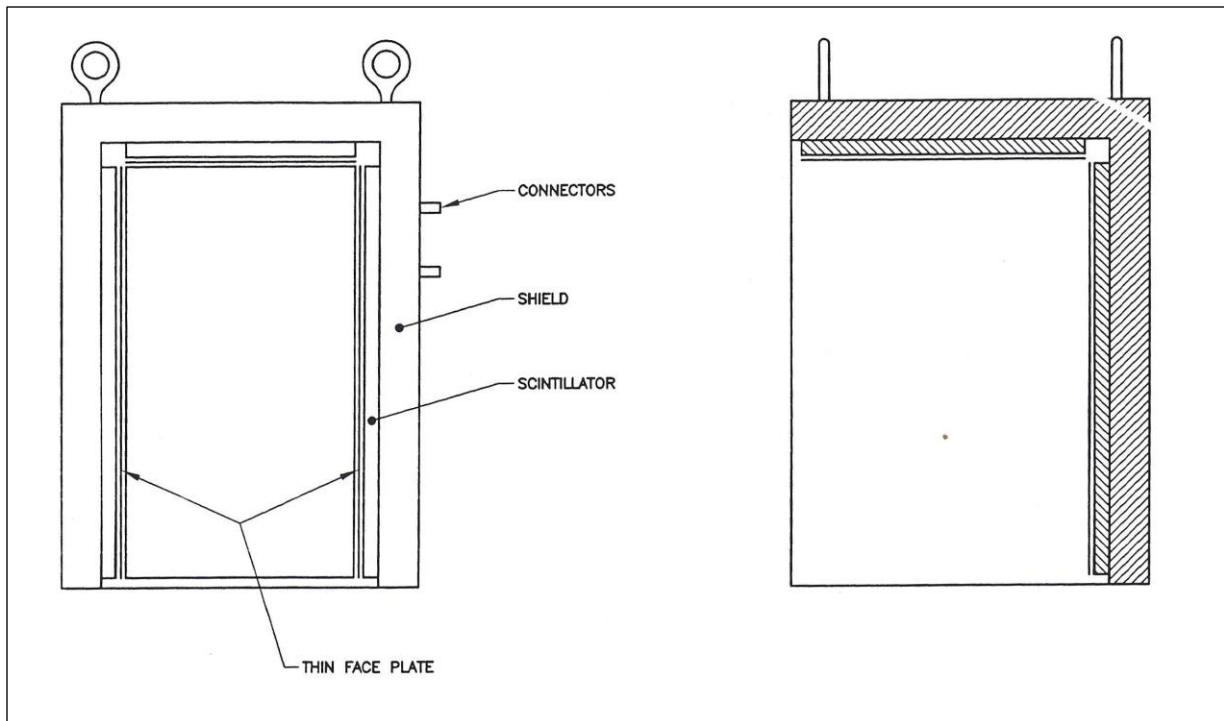
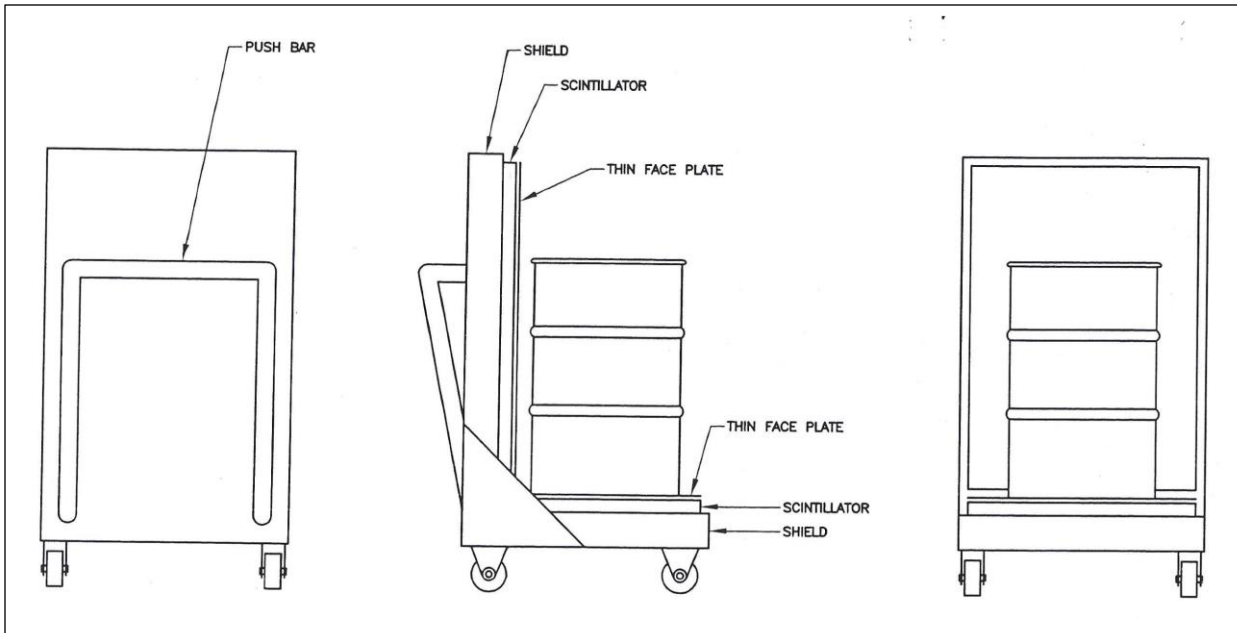
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