

An OSI Systems Company

WASTE MONITOR FOR LARGE OBJECTS.

HIGH SENSITIVITY

EFFICIENT, ACCURATE ANALYSIS

TOUCHSCREEN OPERATION

COST EFFECTIVE SOLUTION

MARKETS

- Critical Infrastructure Hospitals Nuclear Facilities
- Defense

TSA BM286



THE TSA BM286 IS DESIGNED TO SCREEN ITEMS UP TO AND INCLUDING 55 GALLON DRUMS WEIGHING UP TO 1,000 LBS FOR RADIOACTIVE CONTAMINATION AND IS IDEAL FOR MONITORING PRIOR TO RELEASE FROM THE FACILITY.

With an efficient and accurate go/no go analysis and typical scan times of one to three minutes, the BM286 waste monitor allows for cost effective waste management.

ADVANCED DESIGN FEATURES

The TSA BM286 high sensitivity and uniform measurement is achieved by using large volume plastic scintillator detectors on all six sides of the counting chamber for effective and accurate screening of all sides of the item. The load platform, containing the weight monitoring load cells, is mounted on sliding runners to facilitate easier loading of heavy samples. With lead shielding on all sides, the BM286 provides higher sensitivity and isolates the scanned item from any external radiation influence.

PROGRAMMABLE DETECTION PARAMETERS

With the ability for an administrator to define screening parameters, customizing the TSA BM286 for specific radioactive isotopes or 'waste streams' is possible. The operator selects the proper waste stream from an annotated list for each item to be scanned, making the BM286 flexible when screening for multiple contaminants.

EASY-TO-OPERATE

Operation is simple using the color touchscreen panel PC. Easy to read graphics provide instant reporting of system status and operating mode. Administrators can generate reports for all activity or only alarmed activity for efficient record keeping on waste disposal.

FLEXIBLE OPTIONS

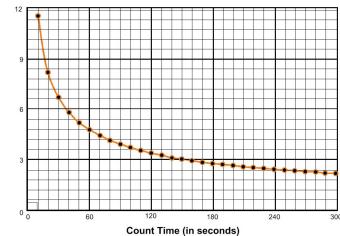
With the optional scale the TSA BM286 is able to greater enhance facility operations. The BM286 comes standard with a stainless steel liner that protects the detectors and allows for easy cleaning if contaminated. An optional aluminum liner is available if greater sensitivity is required. With the optional sodium iodide detector, spectral isotopic identification to fit specific detection requirements is possible.

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TSA BM286

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MINIMUM DETECTABLE ACTIVITY CHART



Confidence of Detection 90% (1.3 sigma) False Alarm Rate 1/100 (2.33 sigma) 25 micro R background Eff. - 9.7%

SPECIFICATIONS

137Cs Activity in nCi

See the Minimum Detectable Activity Chart below

Detectors Two 12 h x 19 w x 1.5 d in $(30 \times 47.5 \times 3.75 \text{ cm})$, plus three 12 h x 36 w x 1.5 d in $(30 \times 91.4 \times 3.75 \text{ cm})$ plus one 12 h x 32 w x 1.5 d in $(30 \times 82 \times 3.75 \text{ cm})$ plastic

 $(30 \times 91.4 \times 3.75 \text{ cm})$ plus one $12 \text{ h} \times 32 \text{ w} \times 1.5 \text{ d}$ in $(30 \times 82 \times 3.75 \text{ cm})$ plastic scintillator detectors, provides 3,456 in³ (56.6 liters) of detector volume per system. Gamma energy range of 40 keV to 1.6 Me V, can be limited with discriminators.

Detectors are fully shielded by a minimum of 1.75 in. (4.4 cm) of lead.

Display Super VGA color flat panel touchscreen monitor

 Power Requirements
 115/230 Vac, 47 - 63 Hz, 400 VA

 Dimensions
 64 h x 39 w x 38 d in (163 x 99 x 96 cm)

 Chamber Dimensions
 45 h x 28 w x 28 d in (114 x 71 x 71 cm)

 Volume
 20 ft³ (566 liters)

 Weight
 12,000 lbs (5,443 kg)

 Environmental
 32° to 100° F (O° to 38° C)

STANDARD FEATURES

- Screen up to 1,000 lbs
- Large Volume Plastic Detectors
- Stainless Steel Liner
- Lead Shielding on all Sides
- 20 Programmable Waste Streams
- User-Friendly Operator Interface
- Color Touchscreen Panel PC
- Keyboard (US English)
- Heavy Duty Casters

OPTIONS

- Aluminum Liner: provides minimum attenuation
- Sodium Iodide Detector: NaI (T1) detector and 1,024 channel MCA for spectral isotopic identification
- Slide-out Tray
- Internal Scale
- Printer

With continual development of our products Rapiscan Systems reserves the right to amend specifications without notice. Product pictures are for general reference. Please note that due to US laws and regulations, not all Rapiscan products are available for sale in all countries without restriction. Please contact your Rapiscan Systems sales representative for more information.

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