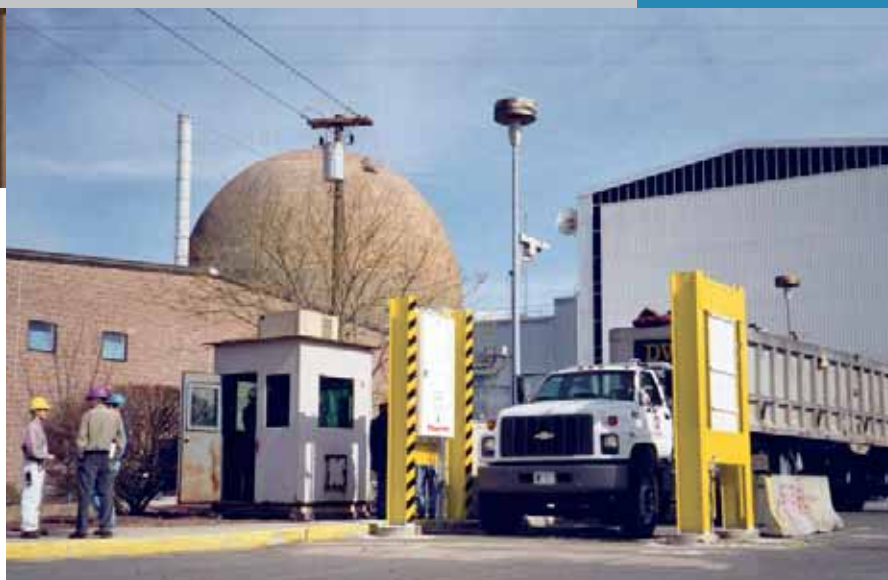


The ASM/III Vehicle Monitoring Systems are designed to scan vehicles for radioactive materials. These systems offer unparalleled sensitivity and reliability.

ASM/III

Vehicle Monitoring System



- Graphic Display
- Language options
- User configurable alarm messages
- Networkable
- Simple to operate and maintain

The ASM/III vehicle monitoring systems are designed to utilize industry-proven detector designs. The system uses state-of-the-art, Reality Based Detection algorithms, and advanced, low-noise electronics technology, to provide the perfect solution for vehicle monitoring applications.

Detector configurations that provide both vertical coverage of the vehicle (detector width) have been cornerstone of ASM detector designs since 1987. These large-area plastic scintillation detectors are shock-mounted and housed in lead-lined, NEMA rated stainless steel detector enclosures, and are proven to withstand the rigors of industrial vehicle monitoring

applications in the harshest environments.

Data analysis and management is processed by the ASM/III System Control Unit and is available in two configurations; a wall mountable unit, incorporating an industrial grade PC or a desktop POD and commercially available PC. Designed to be operated with little or no operator intervention, the ASM/III SCU features simple, one-button response to alarm conditions, while providing detailed scan and alarm data at the request of the operator. A color graphic display allows the viewing of detector data, alarm history and location of the detected source in the vehicle.

ASM III Specifications

Detector Assemblies

2 detectors in total, 1 per assembly

Detector Material:	BC-408 premium plastic scintillator
Radiations detected:	Medium and high energy gamma emitters eg. ⁶⁰ Co, ¹³⁷ Cs, ¹⁹² Ir, ²²⁶ Ra/Th, also neutrons
Detection volume:	49.2 litre (3000 in ³) in total
Detection surface area:	0.9 m ² (1440 in ²) in total
Shielding:	lead on all sides except the front
Vehicle separation:	4.84 m (16 ft.) or less for optimum performance
Electronics:	Remotely controlled high voltage supply, photo multiplier divider assembly, pulse height discriminator and line driver
Vehicle speed sensors:	Heavy duty industrial grade photobeams with cowling for weather and damage protection
Cable to Control Unit:	Belden type 9777 multiconductor, OD 0.82 in. nom (Weatherproof conduit recommended)
Housing:	Stainless steel, weatherproof (NEMA 4) with gasketed, hinged, coated aluminum access door
Temperature ranges:	-35 °C to 50 °C (-31 °F to 122 °F)
Relative Humidity:	10 to 95% RH
Dimensions:	1829 x 457 x 203 mm (72 in x 18 in x 8 in), each housing
Weight:	340 kg (750 lbs) per assembly
Installation:	Mounting hole pattern for installation on client-provided I-beams

Control Unit

Sensitivity:

Maximum sensitivity is set automatically. Radiation increases equivalent to 1-10% of background are detectable Vehicle speed: up to 8 kph (5 mph) with audible and visual alarms if the limit is exceeded.

Indicator lights:

READY (green), WAIT (amber), ALARM (red)

Operator control:

A single pushbutton illuminates when a radiation alarm occurs. Pressing the pushbutton silences the alarm and resets the system.

Background compensation:

Automatic Telephone link to easy maintenance teleservicing network

Phone modem:

Other Controls:

Power ON/OFF; 12-key lockable numeric keypad for System setup, self-test & maintenance. (not required for normal operation)

Self-diagnostics:

Detector operation, wiring integrity and photocell alignment are monitored by internal self-tests. For added reliability, separate hardware monitors the microprocessor

Mountings:

Wall-mounting is standard, other styles are optional

Temperature range:

4 °C to 35 °C (40 °F to 95 °F)

Relative humidity:

10% to 75%

Dimensions:

380 x 600 x 204 mm (15 x 23.6 x 8 in)

Power:

117 Vac, 60 Hz or 220 Vac, 50 Hz

Cable:

NEMA 15-5 3 terminal plug on 6' lead

SYSTEM SHIPPING WEIGHT:

726 kg (1600 lbs)

©2007 Thermo Fisher Scientific Inc. All rights reserved. Kapton is a registered trademark of E.I. du Pont de Nemours and Company. All other trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries. Results may vary under different operating conditions. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representatives for details. Literature Code LITASM3 0407

Worldwide
Frauenauracher Strasse 96
D 91056 Erlangen, Germany

+49 (0) 9131 909-0
+49 (0) 9131 909-205 fax

United Kingdom
Bath Road, Beenham,
Reading RG7 5PR United Kingdom

+44 (0) 118 971 2121
+44 (0) 118 971 2835 fax

United States
27 Forge Parkway
Franklin, MA 02038 USA

+1 (508) 520-2815
+1 (800) 274-4212 toll-free
+1 (508) 428-3535 fax

www.thermo.com/rmp

Thermo
SCIENTIFIC