

The ASM 3000SE Vehicle Monitoring System is designed to provide superior sensitivity for less demanding vehicle monitoring applications.

ASM 3000SE

Vehicle Monitoring System



Accurate and reliable detection of radiation

Superior sensitivity with no false alarms

Optimized for medium to low density loads

Clear and concise display of system conditions

No computer knowledge required

System continuously performs self-recalibration

Vehicle presence always detected



The ASM 3000SE is the latest vehicle monitoring system designed to utilize industry-proven detector designs, state-of-the-art Reality-Based Detection algorithms, and advanced, low-noise electronics technology. It is the perfect solution when you need superior sensitivity, for less demanding vehicle monitoring applications, in the solid waste/municipal waste industries. It is also the perfect monitoring system for smaller vehicles in the scrap metal recycling industries. In the same class as the ASM/II and ASM/III systems, the 3000SE offers unparalleled sensitivity and reliability.

Detector configurations that provide vertical coverage of the vehicle have been

the cornerstone of ASM detector designs since 1987. These large-area plastic scintillation detectors are shock-mounted and housed in NEMA rated stainless steel detector enclosures, and are proven to withstand the rigors of industrial vehicle monitoring applications in the harshest environments.

The Surveillance Monitor is easily installed in a security booth or scale house and offers clear and concise display of system conditions. This unit includes an alphanumeric display for viewing operator instructions & messages, an audible alarm as well as a single red alarm annunciator and green, System Status light.

The ASM 3000SE works automatically, checking every load that goes in or out of your facility. When it finds something that might cause the load to be rejected, the alarm sounds. The ASM helps to keep radioactive materials where they belong - out of your facility.

ASM-SE SURVEILLANCE MONITOR				
1				
2				
3	Alarm occurred at 14:14:07 on 08-Jan-00			
4	Reset by operator 15:16:23 on 08-Jan-00			
5				
6	ALARM	CHANNEL	BKG	SET HIGH
7	----	----	----	----
8	X	DETECTOR 1	408	427 438
9		DETECTOR 2	412	433 416

Alarm printout from the optional printer

ASM 3000SE Specifications

Detectors

Assembly	2 detectors total, 1 per assembly
Detector material	Bicron BC-408 premium plastic scintillator
Radiation detected	Low, medium and high energy gamma emitters
Detection volume	23 l (1,400 in ³) per detector module
Detection surface area	4,500 cm ² (700 in ²) per detector module
Detector separation	4.2 m (14 feet) for optimum performance
Electronics	Remote microprocessor, high voltage supply, photomultiplier divider assembly, pulse height discriminator and line driver
Vehicle presence sensor	Industrial grade proximity detector
Cable & communication	Remote controlled data transmission through two independently shielded 20 AWG twisted pair cables
Housing	Lead-lined, stainless steel, weatherproof (NEMA 4) with gasketed, hinged, coated aluminum access door and lockable 3-point latch for ease of service
Temperature range	-35 to 50 °C (-31 to 122 °F)
Relative humidity	10 to 95% RH
Dimensions	1829 H x 457 W x 230 D mm (72 H x 18 W x 8 D inches) each housing
Weight	125 kg (275 lb) per assembly
Installation	Mounting hole pattern for installation on client-provided I-beams

Control Unit

Sensitivity	Maximum sensitivity is set automatically
Indicator lights	READY (green) and ALARM (red)
Audible indicator	Sounder for alarm and alert conditions
Operator control	A single push-button illuminates when a radiation alarm occurs. Pressing the push-button silences the alarm and resets the system.
Background Compensation	Automatic
Other controls	Power ON/OFF
Self-diagnostics	Continuous during power-up and normal operation
Mounting	Wall-mounted
Temperature range	4 to 35 °C (40 to 95 °F)
Relative humidity	10% to 75% RH
Power	Operates from standard AC voltages (95 to 270 VAC, 50/60 Hz)
Cable	3-terminal NEMA 15-5 plug on 2 m (6') lead

Options

Micro-Analyst™	Hand-held survey meter for locating sources detected by the ASM 3000SE
Printer	Epson LX-300 compatible serial printer for permanent record of alarms
Personal Computer	PC for data logging and system maintenance
CK-2 Check Source	8 µCi ¹³⁷ Cs for routine system performance checks
Checkout and Training	Professional support for your installation and training for your operators

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