The Thermo Scientific LFM-3 portal radiation detection system is an easy to set-up and use, multi-purpose gamma and X-ray detection system.

Thermo Scientific LFM-3 Radiation Detection System



Key Features

- Robust, ruggedized detectors suitable for indoor or outdoor applications
- Supplied with 200' (60m) of cable for each detector, with a maxiumum capability up to 3,300' (1000m)
- High-performance system control unit with single button operation
- Automated, natural background compensation system ready to operate within minutes of installation
- Low, medium and high energy channels provide additional information about the type of radiation detected
- Large, clear display screen and LEDs provide for easy interpretation of data

Applications

- Solid Waste Facilities
- Transfer Stations
- Waste to Energy Plants
- Recycling facilities
- Hospitals Nuclear Medicine and Housekeeping
- Healthcare and Research



The Thermo Scientific LFM Series Radiation Monitoring System product family has long been considered to be the benchmark for radiation monitoring in the hospital and solid waste industry, with hundreds of installed units. The LFM-3 builds on the proven, familiar detector design of previous LFM models and combines this with new, state-of-the-art electronics.

The LFM-3 Radiation Monitoring System is designed to maximize sensitivity to gamma radiation, with a minimum of nuisance alarms, at an affordable price. The system is perfect for monitoring materials bound for landfills, transfer stations and other waste processing facilities

The complete system consists of two shielded, 50.8 mm (2 in.) diameter, NaI (TI) scintillation detectors shock-mounted in separate weatherproof PVC housings.

Cables connect the detectors to an easy-toread digital readout electronics package. Operating the system does not require intensive training or specialized knowledge.

The detectors are constructed to withstand temperature extremes. They also have low mass housings to detect and discriminate low, medium, and high gamma energies.



Product Specifications

LFM-3 Specifications

FHT-6020 Controller	0000.000	
Displayable Range	0 – 999,999 cps	
Operating Temperature	32 to 122°F (0 to 50°C)	
Power Requirements	85V to 264VAC (nominal 115V to 230VAC), 47 to 400hz.	
Maximum input current	550mA, 115VAC or 330mA, 230VAC	
Size	6.5"x5.11"x2" (165mm x 130mm x 51mm)	
Weight	2.9 lbs (1.3kg)	
Construction	Extruded Aluminum housing	
Display	128 x 64 Pixel LCD display	
Push Button	One operating key	
LEDs	4 LEDs:	
	• 1 Green LED (Status)	
	• 2 Yellow LED's (Error and Alarm 1)	
	• 1 Red LED (Alarm 2)	
Audible Alarm	85 dB(A) at 11.8" (30 cm) distance	
Interfaces	• One RS-232 PC interface with a baud rate of 9,600 or 19,200	
	One RS-485 connection for both Nal detectors	
	One RS-485 connection for optional alarm tower connection	
Nal Detectors		
Radiation Detected	Low, medium, and high energy gammas and X-rays (>20keV)	
Sensitivity	The following point sources, free in air at 7 feet (2.1m) from the detector face can be detected with a confidence leve	
	of 95%:	
	1 Second Interval	15 Second Interval
	•44.6 μCi (1.65MBq) Cs-137	• 14.0 µCi (0.52MBq) Cs-137
	•17.3 μCi (0.64MBq) Ba-133	 5.4 μCi (0.20MBq) Ba-133
	•29.0 μCi (1.07MBg) Co-57	• 9.1 μCi (0.34MBq) Co-57
Detectors	Two, 2" Nal(TI) scintillation detectors in low mass housings, constructed to withstand temperature extremes; they are	
	also lead-shielded and shock mounted within special PVC housings.	
Size	4.5" x 17.5" x 7" (144mm diameter, 445mm length, 178mm height)	
Weight	14.7 lbs (6.7 kg)	
Construction	Weatherproofed, painted PVC housings with liquid tight connections suitable for outdoor use.	
Operating Temperature	-4 to 122°F (-20 to 50°C)	
Options		
•	d 50' (15m) of cable TF-401-10000050	
Desktop Mounting Assembly 1	1 1007///	

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Please consult your local sales representatives for details. Literature Code RMP LFM3 2009

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