

# FLAT FERET TRITIUM SURFACE CONTAMINATION MONITOR

Model ~ FF-27

## FEATURES

- PORTABLE  
**SENSITIVE FF-27 DETECTOR**
- DETECTS TRITIUM & C-14
- LOW GAS CONSUMPTION
- AUTO GAS SHUTOFF  
**LAM-SCA ELECTRONICS**
- REJECTION OF OTHER NUCLIDES
- INTEGRATION CAPABILITIES
- BATTERY OPERATED
- BUILT IN AUDIO
- GAS BOTTLE BRACKET
- **OPTIONAL: ALARM RELAY**



FS-27  
DETECTOR



LAM-SCA ELECTRONICS  
WITH GAS BOTTLE  
BRACKET

## DESCRIPTION:

The FF-27 Tritium Contamination Monitor is a portable gas flow proportional counter sensitive to Betas of H-3 & C-14. The windowless probe slides over flat surfaces on poly tape which gives repeatable spacing from surface as well as easy scratch-free movement. The poly tape is easily cleaned but may also be replaced if contaminated.

**NOTE:** P-10 counting gas is utilized in the FF-27 probe. It is non-combustible & can be used in any environment. Two lecture cylinders for P-10 gas are included with instrument.

**\*Cylinders are shipped empty.**

Gas use is minimized by careful design of chamber & by auto shut- off of gas flow when "trigger" on probe handle is released.

Typical counting efficiency is 50% 2 pi of all Tritium Betas escaping the surface being monitored as compared with results obtained using an internal hemispherical 2 pi counter.

Gas flow is normally set at 800 cc/min providing a one hour use for lecture bottle or longer with optional larger cylinder.

**OPTIONAL:** Probe may also be used to monitor hands, clothing & equipment with **Optional** Model H face plate.

**ELECTRONICS:** Power switch and HV pot and other controls are designed to prevent inadvertent change. The audio output of the high level alarm is controlled by a volume mute switch.

Standard features include jack for AC adapter and serial output jack with optional USB adaptor. Yet the overall instrument, including all of these functions and battery life up to 1 week, weighs only 5 pounds.



**TECHNICAL ASSOCIATES**

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## SPECIFICATIONS:

**Detector:** FS-27 Proportional Gas Flow  
**Ranges:** 0-10; 100; 1,000; 10,000 cts/sec (FF-26 and FF-27)  
**Flowmeter:** 10-1000 cc/min. Needle Valve Control.  
**Background:** 15 cts/sec  
**Controls:**

- Open Range Switch
- Battery Check
- Flow Gas Control
- Sound Volume Control.
- Hidden High Voltage Bias Supply For Detector:
- Input Sensitivity High Voltage Control.

**Calibration:** 4 range pots and 1 overall control. Internal.  
**Sensitive Area:** 100 cm<sup>2</sup> (6cm x 21.6cm).  
**Sensitivity:** 100 Bq/100 cm<sup>2</sup>, 35 cts/sec above background

## POWER:

**Battery:** 2 nine volt, 300 hour normal operating life.

## WEIGHT & DIMENSIONS

### FF-27:

**Weight:** 0.57 Kg (1lb. 4 oz.)  
**Dimensions:** 11" L x 2 1/4"W x 3 3/4" H including Handle & Gas Shut Off Switch

### LAM-SCA Electronics with Gas Cylinder Bracket:

**Dimensions:** 10" L x 4.1"W x 7" H (25 cm L x 10.5 cm W x 18 cm H)  
**Weight:** 2.5kg (5lbs) including batteries.  
**Options:** Alarm Relay

**P-10 Gas Cylinder:** 0.6 Kg (2lbs. 6 oz when full.) (Cylinders shipped empty)

## OPTIONAL:

**Detector:** FF-26: 20 cm<sup>2</sup> Sensitive Area  
**Larger Gas Cylinder:** (DOT 3AA2015) On two wheel dolly.  
**Model H Face Plate:** Hands, Clothing, Equipment Probe



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