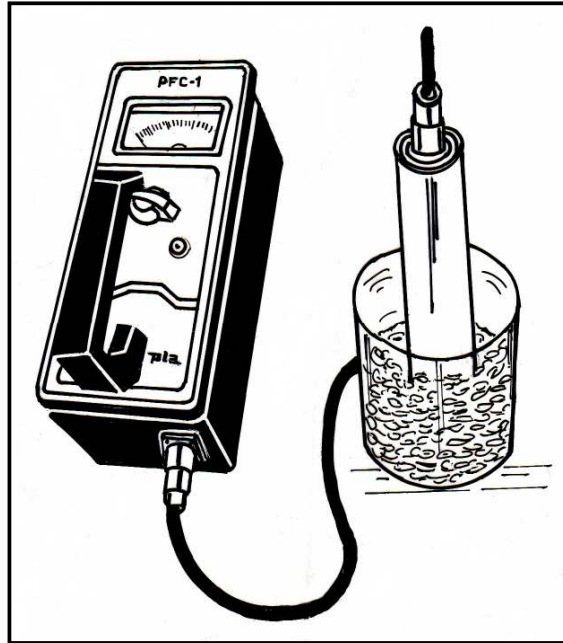


## FOOD RADIOACTIVITY CONTAMINATION MONITOR TYPE - PFC-1

### SALIENT FEATURES

- Simple to use
- Low cost
- NaI Scintillation Detector
- Portable
- Battery operated
- Detects even minute contamination.
- For emergency use



### INTRODUCTION

PLA'S FOOD RADIOACTIVITY CONTAMINATION MONITOR is a simple and low cost and portable Food Contamination Monitor that finds presence of Gamma radioactivity in foodstuff. This is a portable, battery operated hand held monitor and readily transportable to field measurement location.

Food that can be tested include milk, meat, fish, grain, fruit, and vegetables. The food monitor's primary use is for Judging the presence & extent of Gamma contamination.

The food monitor mainly consist of two parts

- 1) NaI Scintillation probe
- 2) A portable meter with analogue display.

**Method** : Food is Contaminated if it produces a reading grater than two times that of the surrounding environment in an uncontaminated area. More the deflection, more is the radioactivity.

**Note** : For prevention of detector probe contamination, this probe is to be inserted in poly there cover during the use and cover is to be disposed after the use. This instrument is meant to be used in emergency.

## TECHNICAL SPECIFICATIONS

|                            |  |
|----------------------------|--|
| Radiation detector         | : Gamma  |
| Detector                   | : NaI Scintillator 1" x 1" plain detector with 1" PM Tube & cable  |
| Ranges                     | : 0 to 50 $\mu$ R/hr, 0 to 500 $\mu$ R/hr, 0 to 5000 $\mu$ R/hr  |
| Accuracy                   | : Within + 15% of reading between 20% and 100% of full scale on any range  |
| Indicator                  | : Moving coil meter with illumination LEDs   |
| Calibration                | : Each range is individually calibrated with Cs-137 Source (gross counting)  |
| Time Constant              | : Approx. 10 sec for all ranges  |
| HV Check                   | : High voltage level can be verified on panel meter by selecting FUNCTION switch on EHT mode                                       |
| Batt. Check                | : Battery voltage level can be read on panel meter by selecting FUNCTION switch on BATT mode                                       |
| Alarm : Indication Setting | : Red LED visual indication with Audio (Buzzer)<br>: Internally settable by multiturn preset and set level readable by push switch |
| Power                      | : 6 x 1.5V type AA cells or equ.   |
| Size                       | : 245mm x 80mm x 120 mm  |
| Weight                     | : Approx. 2kg  |

Note : All Optional items at an extra cost.

Cat. No. PFC-1/0412

### **PLA ELECTRO APPLIANCES PVT. LTD.**

THAKOR INDUSTRIAL ESTATE, KURLA - KIROL ROAD, VIDYAVIHAR ( WEST ), MUMBAI - 400 086  
TEL : 2511 6864 / 6865 FAX : 91-22 - 2516 8948 WEB : [www.plaelectro.com](http://www.plaelectro.com) E-Mail : [pla@plaelectro.com](mailto:pla@plaelectro.com)