

## SMALL ARTICLE CONTAMINATION MONITOR

TYPE: SAM802

### Technical Data



#### FEATURES:

<b>DETECTORS USED</b>	: Pancake GM Detectors
<b>AREA COVERED</b>	: 300 X 300 mm at top & bottom of the detector assembly
<b>DIMENSIONS</b>	: 450 X 450 X 450 mm
<b>DISPLAY</b>	: 16 X 2 LCD display for indication of counts/ count rate
<b>ALARMS</b>	: Audio visual alarms are generated when preset levels exceeded or on hardware fault
<b>MEASUREMENT UNITS</b>	: Preset time, CPS & CPM modes
<b>COUNTING TIME</b>	: 1 to 600 seconds
<b>GAMMA SENSITIVITY</b>	: Lead shielding of suitable thickness will be provided to minimize gamma background
<b>POWER SUPPLY</b>	: 240V +/- 10%, 50 Hz AC

**Small Article Contamination Monitor, Type: SAM802** manufactured by Nucleonix Systems Pvt Ltd. SAM802 is a high sensitivity Contamination Monitor designed for checking of tools & articles of personnel working in Nuclear Installations. This product is designed for detection of Beta/Gamma contamination in the articles placed in the sample tray placed inside detection cavities. The detection assemblies are based on PANCAKE GM detectors. Additionally lead shielding is provided of adequate thickness for reducing the background and getting desired MDA. Counts/count rate, elapsed time are indicated on 16 X 2 LCD Display. Other textual messages also are indicated in the display. LED indication will be provided for clean, contaminated and high background conditions. Equipment is designed for 240V AC, 50Hz operation.

### SPECIFICATIONS

#### NO. OF DETECTORS & TYPE OF DETECTOR USED:

Detectors Used: Pancake GM Detectors  
12 nos. of detectors of dimension 300 X 300 mm placed on top and bottom side of the articles. They are kept apart by approximately 150mm and the distance is adjustable.

#### AREA COVERED:

300 X 300 mm at top & bottom of the detector assembly.

#### SHAPE & DIMENSION OF ENCLOSURE:

450 X 450 X 450 mm for the detection assembly including lead shielding. Electronic unit is mounted on the top of this assembly. Metallic mesh provided for the whole article will be rugged & designed to protect the detector assembly.

#### DISPLAY:

16X2 LCD display for indication of counts/count rate, elapsed time and textual messages.  
LED status indicates high background clean & contamination.

#### ALARMS:

Audio visual alarms are generated when preset levels exceeded or on hardware fault.

#### MEASUREMENT UNITS:

Preset time, CPS & CPM modes.

#### COUNTING TIME: 1 to 600 seconds

#### BACKGROUND SUBTRACTION: ON/OFF

#### GAMMA SENSITIVITY:

Lead shielding of suitable thickness will be provided to minimize gamma background

#### POWER SUPPLY: 240V +/- 10%, 50 Hz AC

#### DOCUMENTATION:

O&M Manuals & Calibration Certificate will be provided along with the equipment. Instrument will be installed & demonstrated at the user's site by the check source.