

SMALL ARTICLE CONTAMINATION MONITOR

TYPE: NXG_SAM32_BG

Technical Data



FEATURES:

DETECTORS USED	: Plastic Scintillator coupled with PMT
AREA COVERED	: 300 X 300 mm at top & bottom of the detector assembly
DIMENSIONS	: 450 X 450 X 450 mm
DISPLAY	: 5" Color TFT display for indication of counts/ count rate
ALARAMS	: Audio visual alarms are generated when preset levels exceeded or on hardware fault
MEASUREMENT UNITS	: Preset time, CPS & CPM modes
COUNTING TIME	: 1 to 999 seconds
GAMMA SENSITIVITY	: Lead shielding of suitable thickness will be provided to minimize gamma background
POWER SUPPLY	: 240V +/- 10%, 50 Hz AC

Small Article Contamination Monitor, Type: NXG_SAM32_BG manufactured by Nucleonix Systems 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 PMT 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 5" Color TFT 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: PMT.
2 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:

5" Color TFT 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 999 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.