

GAMMA AREA MONITOR

PAM155

SALIENT FEATURES

- 3 DECADE LOG SCALE METER • LARGE VISUAL ALARM INDICATION • LOUD AUDIBLE ALARM SPEAKER • PLUG-IN CARD CONSTRUCTION FOR EASY MAINTENANCE • WALL MOUNTING • EXTENDED PROBE CABLE UPTO 10 METER (OPTIONAL)



INTRODUCTION

Gamma Area Monitor type - PAM-155 is designed to monitor the γ (gamma) radiation field in surrounding area where radioactive material is present. It gives visual & audible alarms along with relay output when radiation level exceeds the preset level.

TECHNICAL SPECIFICATIONS

Radiation Detected	: γ (Gamma)
Detector * (Extra Cost)	: GM tube (effective length – 1.5” approx.)
EHT (adjustible)	: 400 to 700V DC typical 500V
Energy Response (Cs137)	: 200Kev to 2.0Mev \pm 25% accuracy **
Meas. Range	: 0.1 to 100mR/hr
Accuracy	: \pm 15% for Cs137
Response time	: Better than 10sec
Display	: Analogue panel meter with 80mm wide 3 decade logarithmic scale
OUTPUTS	: 1) Recorder output is provided (10mV for f.s.) 2) 2 C/O relay, 6A at 230V AC
ALARM	: Activates with power ON or when doserate level exceeds set level ***
Alarm Audio Indication	: Loud alternating tone
Alarm Visual Indication	: Large area red window for alarm conditions & green window for normal conditions
Alarm Trip point	: Adjustable by a 10 turns preset (accesible only after opening the door)

Alarm Trip Constant	: The response time of alarm is inversely related to the intensity present i.e. alarm turns ON within 2sec if the intensity of radioactive field is twice the preset alarm level
ADDITIONAL CONTROLS	: “ACKNOWLEDGE” & “RESET” controls are on front panel & there is additional provision to invoke these controls from the central operator console for remote control
POWER SUPPLY	: 230V AC \pm 10% 50Hz ***
CONSTRUCTION	: Wall mounting
DIMENSIONS	: 310mm x 260mm x 150mm approx.
WEIGHT	: Approx. 5.5Kg

NOTES

* Our standard model is to be used with detector probe GP-55 comprising of GM tube (effective length – 1.5” approx.) or equiv. in S.S.housing, with 1meter UHF to UHF cable. Alternatively, detector type : GP-65 with housing & 10 meter long cable with multi-pin connector, suitable for this area monitor, is available at an extra cost.

** Though the instrument will respond to energy as low as 100Kev, the calibration holds good for the above mentioned energy range only.

SPECIAL VERSIONS

1) PAM-155H :

Designed for Radiotherapy / Radiographer requirement with following features :

- a) It does not have power ON alarm indication.
- b) It has additional provision to connect external 12V DC battery, current 300mA.
- c) GM Tube mounted internally.

2) PAM-155N :

Designed for Nuclear Power Corporations with following features :

- a) It has additional provision to connect external 12V DC battery, current 300mA.
- b) GM Tube mounted internally.

Note: All optional items are at an extra cost.

CAT.NO. PAM155 / 0503

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