



FEATURES

- Wide temperature range detector
- Compact and reliable
- Available with or without display and local signaling
- Small diameter detector
- Up to 200 m (650 ft) between GM detector and processing unit
- Measurement in Gy/h (rad/h) or Sv/h (rem/h)

GIM 209K Wide Range Gamma Area Monitor

The GIM 209K forms part of the RAMSYS product line. It has been developed to monitor wide range dose rate in nuclear facilities. A SG/GM 23 based on a double Geiger Muller tube to monitor gamma emitting isotopes.

Its small diameter makes it suitable for the refurbishment of existing radiation monitoring system.

APPLICATIONS

- Radioprotection of workers
- Operational process monitoring
- Gamma interlock, etc.

RELATED MONITORS

- GIM 207K: low range version (with SG/GM 21 detector)
- GIM 208K: high range version (with SG/GM 22 detector)
- GIM 210K: dual detector version (with two SG/GM 21 or two SG/GM 22 or one SG/GM 21 + one SG/GM 22)

radiation monitoring
systems

A Mirion Technologies Division

Featuring:



PHYSICAL CHARACTERISTICS

- Radiation detected: gamma
- Detector: Geiger Muller tube
- Energy range: 80 keV to 2 MeV
- Typical measurement range: 10^{-6} to 1 Gy/h (10^{-4} to 10^{+2} rad/h)

ENVIRONMENTAL CHARACTERISTICS

- Long term temperature: +10°C to +40°C (+50°F to +104°F)
- Maximum periodic ambient temperature: +0°C to +55°C (+32°F to +131°F)
- MTBF: > 20 000 hours
- TID (processing unit): 100 Gy (10^{+4} rad)
- TID (detector): 6 Gy ($6 \cdot 10^{+2}$ rad)
- Protection index: IP65 and IK07

MECHANICAL CHARACTERISTICS

- Dimensions:
 - Processing unit: 390 mm x 196 mm x 187 mm (15.3 in x 7.7 in x 7.3 in)
 - Detector: 184 mm (7.2 in) x Ø 28 mm (1.1 in)
- Weight:
 - Processing unit: 8.5 kg (18.7 lb)
 - Detector: 470 g (1 lb)
- Color (processing unit): gray RAL 7030 (decontaminable paint)

ELECTRICAL CHARACTERISTICS

- Power supply: 230 Vac – 50 Hz or 120 Vac – 60 Hz
- Data link outputs: 1 RS232 and 2 isolated RS485
- Alarm relays: 3 SPDT relays
- I/O: 2 isolated analog outputs and 1 isolated analog input (0/4-20 mA)

SIGNALING (Applicable to LPDU only)

- Alphanumeric display: measurement, status...
- Sound alarm: buzzer 90 dBA at 1 meter
- Visual alarm: 3 lights (red, yellow, green)

REFERENCE STANDARDS

- Nuclear: IEC60532
- Seismic: IEEE344 and IEC60980
- EMC: 2006/95/CE and 2004/108/CE, EPRI 102323, MIL STD 461 E, IEC61000-6-2 and IEC61000-6-4

VERSIONS

- 230 Vac or 120 Vac
- LPDU or LPU
- With or without RS485 junction box
- Detector cable length:
 - from 10 m (32.8 ft) to 200 m (656 ft)
- Junction box cable length:
 - 5 m (16.4 ft) or 10 m (32.8 ft)
- Detector calibrated in Gy/h or Sv/h

ACCESSORIES

- Calibration tools
- Software
- USB converters
- Seismic qualified wall mounting bracket



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