



FEATURES

- Wide measurement range
- Compact and reliable
- Available with or without display and local signalling
- Available under 10 CFR 50 App.B, ASME NQA-1 and IEC61226 programs for safety related applications

GIM 202K Wide Range Gamma Area Monitor

The GIM 202K forms part of the RAMSYS product line. It has been developed to monitor dose rate in nuclear facilities under mild operating or post-accident conditions.

The very simple concept of its ionization chamber allows this monitor to have a great reliability of prime importance in the safety related applications, in a mild environment.

APPLICATIONS

- Radioprotection of workers
- Operational process monitoring
- Post-accident operations
- Steam line monitoring, etc.

RELATED MONITORS

- GIM 201K: low range gamma area monitor
- GIM 203K: wide range gamma area monitor
- GIM 205K: medium range gamma area monitor
- GIM 206K: high range gamma area monitor

radiation monitoring
systems

A Mirion Technologies Division

Featuring:



PHYSICAL CHARACTERISTICS

- Radiation detected: gamma
- Detector: stainless steel ionization chamber (KG 220 SEF)
- Energy range: 80 keV to 7 MeV
- Typical measurement range: 10^{-7} to 10^{+2} Gy/h (10^{-5} to 10^{+4} rad/h)

ENVIRONMENTAL CHARACTERISTICS

- Long term temperature (processing unit): +10°C to +40°C (+50°F to +104°F)
- Maximum periodic ambient temperature (processing unit): +0°C to +55°C (+32°F to +131°F)
- Temperature range (detector): -30°C to +100°C (-22°F to +212°F)
- MTBF: > 20 000 hours
- TID:
 - Processing unit: 25 Gy ($2.5 \cdot 10^{+3}$ rad)
 - Detector: $2 \cdot 10^{+6}$ Gy ($2 \cdot 10^{+8}$ rad)
- Protection index:
 - Processing unit: IP65 and IK07
 - Detector: IP67 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: 240 mm (9.5 in) x Ø 280 mm (11 in)
- Weight:
 - Processing unit: 8.5 kg (18.7 lb)
 - Detector : 23 kg (51 lb)
- Color: 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
- Environmental: IEE323 and IEC60780
- 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 140 m (459.3 ft)
- Junction box cable length: 5 m (16.4 ft) or 10 m (32.8 ft)

ACCESSORIES

- Calibration tools
- Software
- USB converters



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