



## FEATURES

- Wide measurement range
- Compact and reliable
- Available with or without display and local signalling
- Conforms to IEC60532 standard
- 1E qualification and embedded safety related software
- Available under 10 CFR 50 App.B, ASME NQA-1 and IEC61226 programs for safety related applications

## GIM 204K

### Very Wide Range Gamma Area Monitor

The GIM 204K forms part of the RAMSYS product line. It has been developed to monitor dose rate or equivalent dose rate in nuclear facilities for personnel exposure as well as for process monitoring.

This monitor is available in many versions: with or without display, integral or remote detector, dose rate or equivalent dose rate, fixed or portable, etc.

## APPLICATIONS

- Radioprotection of workers
  - Containment atmosphere
  - Control room air, etc.
- Operational process monitoring

## RELATED MONITORS

- GIM 204P: portable version

radiation monitoring  
systems

A Mirion Technologies Division

Featuring:



## PHYSICAL CHARACTERISTICS

- Radiation detected: gamma
- Detector: silicon
- Energy range: 60 keV to 3 MeV
- Measurement capability:  $10^{-8}$  to  $10^{+3}$  Gy/h  
( $10^{-6}$  to  $10^{+5}$  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):  
-20°C to +55°C (-4°F to +131°F)
- MTBF: > 20 000 hours
- TID (processing unit): 100 Gy ( $10^{+4}$  rad)
- TID (detector): 500 Gy ( $5 \cdot 10^{+4}$  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: 99 mm x 92 mm x 168 mm  
(3.9 in x 3.6 in x 6.6 in)
- Weight:
  - Processing unit: 8 kg (17.6 lb)
  - Detector: 0.6 kg (1.3 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: IEEE323 and IEC60780
- 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 5 m (16.4 ft) to 100 m (328 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
- Ethernet
- USB converters
- Wall mounting bracket
- Carrying handle



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