



FEATURES

- Wide measurement range
- Wide detector temperature range
- High detector TID
- Compact and reliable
- Available with or without display and local signaling
- Water-proof detector
- Indoor and outdoor applications

GIM 205K Medium Range Gamma Area Monitor

The GIM 205K forms part of the RAMSYS product line. It has been developed to monitor dose rate in nuclear facilities for process monitoring. Its ionization chamber is waterproof and makes it perfectly suitable for sump monitoring.

A version based on a differential ionization chamber allows a dynamic compensation of the ambient background.

APPLICATIONS

- Operational process monitoring
 - Sump monitoring
 - Steam line monitoring, etc.

RELATED MONITORS

- GIM 201K: low range gamma area monitor
- GIM 202K: wide range gamma area monitor
- GIM 203K: wide 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 (SG/IC41)
- Energy range: 50 keV to 7 MeV
- Typical measurement range: 10^{-5} to 10^{+3} Gy/h
(10^{-3} to 10^{+5} rad/h)

ENVIRONMENTAL CHARACTERISTICS

- Long term temperature:
 - Processing unit: +10°C to +40°C (+50°F to +104°F)
 - Detector: -5°C to +70°C (+23°F to +158°F)
- Maximum periodic ambient temperature:
 - Processing unit: +0°C to +55°C (+32°F to +131°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: IP68 and IK07

MECHANICAL CHARACTERISTICS

- Dimensions:
 - Processing unit: 370 mm x 196 mm x 187 mm
(14.6 in x 7.7 in x 7.3 in)
 - Detector: 145 mm (5.7 in) x Ø 63.5 mm (2.5 in)
- Weight:
 - Processing unit: 8.5 kg (18.7 lb)
 - Detector: 1.2 kg (2.6 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

- 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 (656.2 ft)
- Junction box cable length: 5 m (16.4 ft) or 10 m (32.8 ft)
- Differential chamber (SG/ICD41) for dynamic background compensation

ACCESSORIES

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



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