



## GIM 205

### Medium range gamma area monitor

- continuous monitoring and display of the gamma dose rate
- visual, audible and electrical signal alarms when threshold levels are exceeded
- wide dynamic range
- compact and reliable (MTBF > 20 000 hours)
- available with or without display and local signalling
- water-proof detector

The GIM 205 forms part of the **RAMSYS** product range. It has been developed to monitor dose rate in nuclear facilities for process monitoring. Its ionization chamber is water-proof and makes it perfectly suitable for the sump monitoring. A version based on differential IC allows a dynamic compensation of the ambient background.

Version available	Display and local signalling	Associated process unit
GIM 205-1		LPU/ICQ
GIM 205-2	X	LPDU/ICQ

## Physical characteristics

- radiation detected: gamma
- detector:
  - SG/IC41 detector: 0.1 l ionization chamber
  - SG/ICD41 detector: 0.1 l differential ionization chamber
- measurement range:  $10^{-5}$  to  $10^3$  Gy/h
- energy range: 50 keV to 7 MeV
- temperature range:
  - detector: -20°C to +120°C (4°F to 248°F)
  - electronics: 0°C to 55°C (32°F to 131°F)

## Electrical characteristics

- power supply: 120 V/60 Hz - 230 V/50 Hz
- interfaces
  - RS232 serial link for parameter configuration of the monitor through a computer and MASS application software
  - two 0/4 - 20mA analog outputs, one 0/4 - 20mA analog input, three programmable relays, two isolated serial links

## Mechanical characteristics

- protection level: IP65 and IK07 (LP(D)U) - IP67 (Detector)
- LPDU aluminium case: RAL 7030 grey colour decontaminable paint
- stainless steel detector
- dimensions:

	Detector SG/IC41	LPU/ICQ	LPDU/ICQ
<b>height</b>	≅162 mm (6.37 in)	326 mm (12.83 in)	370 mm (14.56 in)
<b>width</b>	≅∅63,5 mm (2,50 in)	196 mm (7.7 in)	196 mm (7.71 in)
<b>depth</b>	-	106 mm (4.17 in)	187 mm (7.36 in)
<b>weight</b>	....	4.5 kg (9.92 lb)	8 kg (17.6 lb)

## Qualification

- EMI/RFI: EN 55022, CEI 61000-6-2, 61000-6-4

## Alarm signaling (applicable to LPDU only)

- audio indicators: buzzer sound alert rated 90dBa at one meter
- visual indicators: programmable operation lights such as red for high alarm, yellow for alert alarm, green for normal operation

## Accessories

- RAMSYS softwares
- junction box to get all signals on a terminal block
- set of calibration
- local signaling

RAMSYS: Radiation  
Monitoring System