



GIM 201

Low range gamma area monitor

- continuous monitoring and display of the absorbed gamma dose rate
 - visual, audible and electrical signal alarms when thresholds levels are exceeded
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- wide measurement range
 - up to 1000 meters (3000 ft) between detector and processing unit
 - available with or without display and local signaling
 - suitable for continuous and pulsed radiation fields
 - compact and reliable (MTBF > 20 000 hrs)

The GIM 201 forms part of the **RAMSYS** product line. It has been developed to monitor absorbed dose rate in nuclear facilities for personnel exposure.

Its design makes it especially suited for operation in accelerators.

Ionization chamber made of polyethylene allows the measure of short duration pulsed radiation fields when halogenated and/or material activation is an issue.

Version available	Display and local signalling	Detector	Associated processing unit
GIM 201-1		SG/IC21 (PE-hd)	LPU/ICQ
GIM 201-2	x	SG/IC21 (PE-hd)	LPDU/ICQ

Physical characteristics

- radiation detected: gamma
- detector: 3.8 l air filled ionization chamber
- measurement range (IEC 60532 and IEC 60846):
 - 10⁻⁶ to 10 Sv/h (10⁻⁴ to 10³ rem/h)
- energy range: 50 keV to 7 MeV
- temperature range:
 - electronics : +0°C to +55°C (32°F to 131°F)
 - detector : -40°C to +80°C (-40°F to 176°F)

Electrical characteristics

- power supply: 120V/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 RS485 isolated serial links

Mechanical characteristics

- protection level: IP65 and IK07
- aluminium case: RAL 7030 grey colour decontaminable paint
- dimensions:

	Detector	LPU/IC	LPDU/IC
height	288 mm (11.34 in)	390 mm (15.3 in)	390 mm (15.3 in)
width	∅ 185 mm (7.28in)	196 mm (7.7 in)	196 mm (7.7 in)
depth	.../...	106 mm (4.17 in)	187 mm (7.36 in)
weight	1,35 to 1,86 kg (2.97 to 4.09 lbs)	5 kg (11 lbs)	8,5 kg (18.7 lbs)

Qualification

- EMI/RFI: EN 55022, IEC 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 (¹³⁷Cs source and its fixture)
- local signaling

RAMSYS: Radiation
Monitoring System

129066D

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