

RadEye G/G-10

Gamma Safety Surveys

Applications

- Gamma surveys from background up to personal safety levels
- First Responders
- Nuclear Power Industry
- Radiography
- Radiation Protection
- Radiography
- G-10 is for H-10 deep dose rate measurements



Wide range survey meter RadEye G-10 (SI-units) and RadEye G (US-market)

The RadEye G and RadEye G-10 are lightweight and very rugged instruments designed for quick and reliable measurement of gamma dose rates.

Modern electronic circuitry guarantees excellent linearity over six decades of radiation intensity: from background level to 100 mSv/h (10 R/h) - with unlimited overrange indication. Both devices incorporate a large energy compensated GM-tube for precise dose rate measurement for gamma and X-ray.

Detector	Energy compensated GM-tube
Measuring range	RadEye G: 50 μ R/h - 10 R/h RadEye G-10: 0.5 μ Sv/h - 100 mSv/h [50 rem/h - 10 rem/h]
Energy range (according to IEC 60846-1)	RadEye G: 45 keV - 3 MeV RadEye G-10: 50 keV - 3 MeV
Count rate for Cs-137 (662 keV)	17 cps per mR/h [1.7 cps per μ Sv/h]

RadEye	Color front cover	Order no.
RadEye G-10	red	# 4250676
RadEye G-10	white	# 425067602
RadEye G-10 PTB	red	# 4250675
RadEye G	black	# 4250674
RadEye G	yellow	# 425067401

Common features of RadEye G and GF series

Key features

- Pocket size
- Accurate
- Lightweight
- Large graphic display with clear prefix and bar graph
- Extreme low power consumption for permanent operation
- Energy compensated up to 3 MeV

Check source

To ensure top functionality of the RadEye G series, we offer a test adapter based on 200 kBq Ba-133 - exempt quantity referring to e.g. NRC/IAEA/EU regulations. # 425067072
For use in the US, a 5 μ Ci Cs-137 test adapter is available as well. # 425067075CS137

RadEye GF/GF-10

High Range Gamma Surveys



Applications

- High range measurement
- Radiography
- Safety

High range gamma survey meter RadEye GF-10 (SI-units) and RadEye GF (US-market)

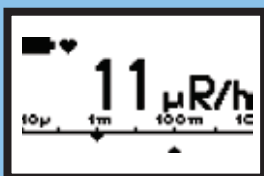
The intelligent ratemeter algorithm (ADF mode) guarantees that even the smallest changes in dose rate are immediately detected, while at the same time, random fluctuations are effectively suppressed.

All essential functions are easily accessed while wearing protective gloves. The alarm-LED can be seen while the instrument is worn in a belt-holster. The instrument is also equipped with a built-in vibrator and an earphone-output for silent alarming or use in very noisy environment.

Detector	Energy compensated GM-tube
Measuring range	RadEye GF: 0.5 mR/h - 300 R/h RadEye GF-10: 5 μ Sv/h - 3 Sv/h [0.5 mrem/h - 100 rem/h]
Energy range (according to IEC 60846-1)	RadEye GF: 45 keV - 3 MeV RadEye GF-10: 50 keV - 3 MeV
Count rate for Cs-137 (662 keV)	RadEye GF: 1.3 cps per mR/h RadEye GF-10: 0.13 cps per μ Sv/h

RadEye GF: # 425067475

RadEye GF-10: # 425067675



Background measurement
Alarm thresholds - two triangles in the bar graph, indication low



Alarm level 1 exceeded
"Alarm 1" and "speaker" signs show up
Absence of trend arrow indicates stable radiation level - reading can be taken



Approaching a source
Alarm thresholds - not yet exceeded.
Trend arrow indicates increasing radiation level

RadEye G-Ex series

Intrinsically Safe Gamma Surveys

Features

- Intrinsically safe according to ATEX standards
- Efficient and reliable dose and dose rate measurements
- Large, clear and backlit display for error-free readings
- Rugged and reliable
- Lightweight, only 160 g (5.6 oz.)
- Low power technology



RadEye G-Ex series  - intrinsically safe personal radiation detectors

In emergency response and in industry flammable and explosive materials like gases, dust and fibers can occur. In such potentially explosive atmospheres it is necessary to use ATEX certified devices for your measurements.

The Thermo Scientific RadEye G-Ex series comprises four versions of intrinsically safe handheld devices for gamma and dose rate measurements. They are designed according to the latest ATEX standards to meet the needs of their operator in and around hazardous areas.


Devices certified as "intrinsically safe" are designed to be unable to release sufficient electrical or thermal energy to cause ignition of flammable materials like gas, dust or particulates.

Beside the ATEX tags, the visual difference between the RadEye versions is noted by the orange color of the front panel of the intrinsically safe versions.

Inside, the RadEye G-Ex devices have been re-engineered to reduce energy safety issues and avoid the generation of heat and electrical sparks. They are premium products designed for ultimate safety and accurate dose rate measurements.

ATEX Certification RadEye G-Ex Instruments

 II 2G-EX ia IIB T4

	ATEX examination mark. This sign is required on all devices used in European hazardous areas.
II 2G	Classification of zones. II = device is approved for all non-mining areas. 2 = category of the device, here it means that the device is rated for the second most hazardous areas. G = designates atmosphere, in this case gas, vapors and mist.
Ex	Explosion protection based on European Ex-regulations.
ia	Explosion protection type, "ia" is the highest level of protection.
IIB	Gas group for average reactive gases (except hydrogen, acetylene or disulfide)
T4	Temperature class gives the user the maximum temperature of a surface that may be in contact to the Ex atmosphere under fault conditions. T4 is rated at 135 °C.

RadEye G-10-Ex: # 425067660

RadEye GF-10-Ex: # 425067670

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