

GQ GMC-600/GMC-600+ Geiger Counter



GQ Electronics LLC

Revision 1.2

Overview

The GQ GMC-600 series digital Geiger Muller Counter is designed to be a portable and convenient device. It can be used as industrial, commercial maintenance, research, evaluation, simulation and other analytical or scientific applications in areas such as industrial plants, public utilities, universities, laboratories, and electronic repair shops. The device comes with built in audible and visual signals for the level of radiation detected. It can be used for radiation detection and monitoring both indoor and outdoor, as well as in other similar environments. It features automatic data recording. It can continually monitor the radiation and log the data each second into internal memory. When connected to a PC, software can download the radiation history data to the computer and the user is able to analyze those data later. The GQ GMC-600/GMC-600+ installed a high contrast black/white LCD module, one front LED indicator and one analog data port. The analog data port can be connected to any third party device application as data input.

The GMC-600/GMC-600+ installed a WiFi module, user is able to log the data via WiFi wirelessly.

The device is equipped with an USB port, utilized for communication and external power supply/charging of the internal rechargeable Li-Ion 3.6V/3.7V battery.

The GMC-600/GMC-600+ internal rechargeable battery can be charged with the a standard USB port, USB charger or with a computer USB port. Using the external power, continuous data monitoring is possible. Using either power adapter you will not have to worry about the batteries charge condition or any data loss.

The main board also has a real time clock on board for time related data logging purposes.

The GMC-600/GMC-600+ installed a high sensitivity sensors to ensure full scale/range measurement and higher accuracy. .

Specifications:

Range of dose rate indications, μ Sv/h 0.00 to ~4250 Range of exposure dose rate indications, mRem/h 0.00 to ~425

Reproducibility of indication 10%

Range of CPM >1,000,000 (continuously)

Alarm levels by CPM> 0 (continuously)Alarm levels by μSv/h0.00 to 4250Alarm levels by mRm/h0.00 to 425

Date indicationYYYY-MM-DD (continuously)Time indicationHH-MM-SS (continuously)

Elapsed time indication 99 years(maximum)

Timed Count1 Second to 256 days(programmable) **Scheduled Timed Count**0 Second to 256 days(programmable)

Sensor installed: Pancake SBT-11 (GMC-600)
Pancake LND-7317 (GMC-600+)

Radiation detection α, β, γ, x -Ray

Detectable Radiation level(GMC-600 Plus) $\alpha(2.5 \text{ MeV}), \beta(50 \text{KeV}), \gamma, \text{ x-Ray}(10 \text{ keV})$

Detectable Radiation level (GMC-600) $\alpha(3 \text{ MeV}), \beta(100 \text{KeV}), \gamma, x-\text{Ray}(10 \text{ keV})$

Instrument Background < 0,2 pulses/s **Working Voltage** 3.6-3.7V

DisplayLCD dot matrix, back lighted

On board MemoryPower: Consumption
1M Bytes flash memory for data storage
25mW – 125mW (count rate dependant)

Power: Supply3.7V Li-lon battery / USB power **Dimensions**135 x 78 x 25 mm(5.25"x 3" x 1")

Packing List:

- 1. GMC-600/GMC-600+ main unit.
- 2. USB cable
- 3. Quick start guide
- 4. Download link for SoftGeigerCounter software and USB driver for Windows 32 and 64 bits (see Quick start guide)
- 5. Download link for a complete user guide in pdf version.

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