Environmental
Instruments
Canada Inc.

CT008-F

Un detector robust, accesibil, cu gama larga de masurare a contaminarii cu radiatii, care masoara radiatii alfa, beta si gamma, potrivit pentru situatii de urgenta

Caracteristici

- Detector alfa, beta, gamma
- Compact, usor
- Gama de raspuns de la 0 la 10 Sv/h
- Operare locala simpla cu un singur buton si afisaj
- Se conecteaza la GammaGuard prin Bluetooth Low Energy (BLE)
- Detector cu stare solida de ultima generatie
- Interfata bogata pentru utilizator oferita de afisajul smartphone-ului
- Capabil sa inregistreze date pe smartphone

Introducere

CT008-F este un detector compact alfa, beta, gamma. Aceasta il face potrivit pentru identificarea contaminarii radioactive. CT008-F este suficient de sensibil pentru a detecta radiatia provenita de la obiectele casnice, dar poate masura totusi pana la niveluri periculoase. Spre deosebire de instrumentele bazate pe tuburi Geiger-Mueller tip pancake, acesta este usor, compact si durabil. Utilizeaza tehnologie cu scintilator solid, care ofera capacitatea de a rezista la variatiile de presiune atmosferica sau socuri, fara a se deteriora. Este usor de utilizat si se conecteaza wireless la smartphone-ul dumneavoastra. Asocierea cu un smartphone ofera o interfata bogata pentru utilizator si permite inregistrarea datelor cu stampila de timp si data, si coordonate GPS. Datele pot fi inregistrate intr-un fisier pe telefon.

Senzorul, aflat pe spatele detectorului, este acoperit de un scut alfa/beta. Scutul poate fi inchis pentru masurarea radiatiei gamma sau deschis pentru a dezvalui fereastra senzorului si a efectua citiri de contaminare alfa/beta/gamma. Scutul pastreaza, de asemenea, senzorul in siguranta in timpul transportului.

CT008-F este alimentat de 2 baterii AAA standard.






Specificatii

Utilizare Indicata: Verificarea contaminarii la perchezitii, numararea probelor si inspectii

Detector: Scintilator solid din plastic si fotomultiplicator cu siliciu

Unitati de Masurare: Selectabile de utilizator: µSv, mRem sau numarari – Counts Per Minute

Fereastra: 4,7 cm² zona activa alfa, 5,5 cm² beta/gamma, mylar aluminizat protejat de ecran de aluminiu

Sensibilitate: ~ 260 CPM/µSv/h (Cs-137)

Gama: 0 pana la 10 Sv/h, 1000 Rad/h, 4.000.000 CPM

Timp de Raspuns: Selectabil de utilizator de la 1 la 30s sau Auto. Afisajul se actualizeaza in fiecare secunda

Fundal: ~15 CPM

Afisaj Local: OLED de 2,2 x 1,2 cm. Dimensiunea fontului se ajusteaza automat pentru a afisa cat mai multe cifre posibil.

Comenzi Locale: Un buton de apasare — apasare scurta (<2s) pentru a comuta intre ecrane; apasare lunga (>2s) pentru a intra/iesi din modul Hibernare

Comunicatie Wireless: Bluetooth Low Energy cu conectare la GammaGuard.

Baterii: 2 baterii AAA standard

Timp de Functionare: 300 de ore conectat la GammaGuard, 130 de ore cu afisaj local.

Dimensiune: 5,5 × 9,5 × 2 cm (2,2 × 3,7 × 0,8 in.)

Greutate: 75 g (inclusiv baterii)

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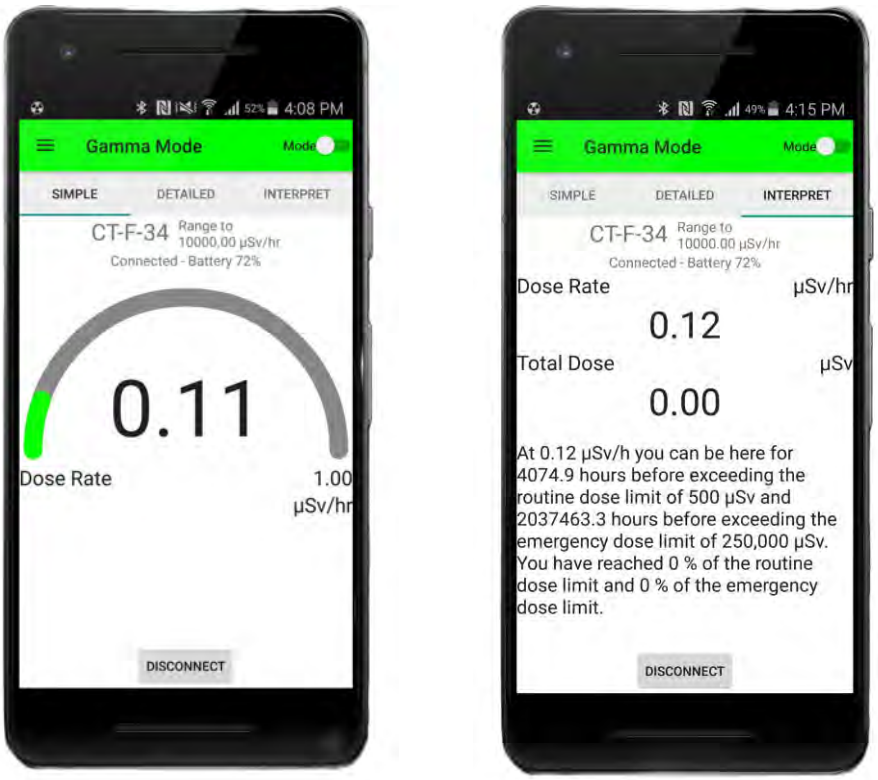
Sistemul GammaGuard

CT008-F, ca si multe alte instrumente ale noastre pentru detectare a radiatiilor, se conecteaza la aplicatia noastra pentru smartphone, GammaGuard.

Aplicatia GammaGuard:

- Ofera un afisaj mare, usor de citit.
- Are capacitatea de a interpreta citirile pentru utilizatorii non-tehnici.
- Utilizeaza o interfata de utilizator consistenta pentru toate detectoarele noastre portabile, astfel incat sa existe un singur sistem de invatat.
- Poate salva automat date intr-un fisier si incarca date intr-o baza de date centrala, facilitand raspunsul coordonat la incidente.
- Alerteaza utilizatorul cu privire la nivelurile ridicate de radiatii, chiar si atunci cand efectuati alte sarcini, atata timp cat GammaGuard ruleaza in fundal.
- Afiseaza nivelul de radiatii de la distanta, atunci cand detectorul se afla pana la 40 m departare de smartphone.
- Schimba fundalul din verde, in galben, in rosu, pentru a indica niveluri scazute, ridicate si foarte ridicate de radiatii.

[Capturi de ecran ale aplicatiei GammaGuard — Modul Gamma: ecranul Simplu (stanga) si ecranul Interpretare (dreapta)]



Pentru mai multe informatii

Vizitati http://www.gammawatch.com/ sau contactati:

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CT008-F

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A rugged, affordable, high range radiation contamination detector that measures alpha, beta and gamma, suitable for emergency situations

Features

- Alpha, beta, gamma detector
- Compact, lightweight
- Response range from 0 to 10 Sv/h
- Simple single-button local operation with display
- Connects to GammaGuard via Bluetooth Low Energy (BLE)
- State of the art solid state detector
- Rich user interface provided by smartphone display
- Capable of logging data to the smartphone



Introduction

The CT008-F is a compact alpha, beta, gamma detector. This makes it suitable for identifying radioactive contamination. The CT008-F is sensitive enough to pick up the radiation from household items, but can still measure up to dangerous levels. Unlike pancake Geiger-Mueller tube based instruments, it is light, compact, and durable. It uses solid state technology which offers the ability to withstand air pressure changes without rupturing. It is easy to use and connects wirelessly to your smartphone. Pairing with a smartphone provides a rich user interface and allows for time and date stamped data logging with GPS coordinates. The data can be logged to a file on your phone.

The sensor, located on the back of the detector, is covered by an alpha/beta shield. The shield can be closed to take gamma measurements, or opened to reveal the sensor window and take alpha/beta/gamma contamination readings. The shield also keeps the sensor safe during transport.

CT008-F is powered by 2 standard AAA batteries.



Specifications

Indicated Use: Contamination frisking, sample counting and surveying

Detector: Plastic scintillator and silicon photomultiplier

Measurement Units: User selectable (µSv, mRem or counts.)

Window: 4.7 cm^2 active area alpha, 5.5 cm^2 beta/gamma, aluminized mylar protected by aluminum screen

Sensitivity: ~ 260 CPM/µSv/h (Cs-137)

Range: 0 to 10 Sv/h, 1000 Rad/h, 4,000,000 CPM

Response Time: User selectable from 1 to 30s or Auto. Display updates every second

Background: ~15 CPM

Local Display: 2.2 x 1.2 cm OLED. Font size automatically adjusts to display as many digits as needed.

Local Controls: One push button – short press (<2s) to toggle screens; long press (>2s) to enter/exit Sleep mode

Wireless Communication: Bluetooth Low Energy connecting to GammaGuard.

Batteries: 2 standard AAA batteries

Operating Time: 300 hours connected to GammaGuard, 130 hours if using local display.

Size: 5.5 × 9.5 × 2 cm (2.2 × 3.7 × 0.8 in.)

Weight: 75 g (including batteries)

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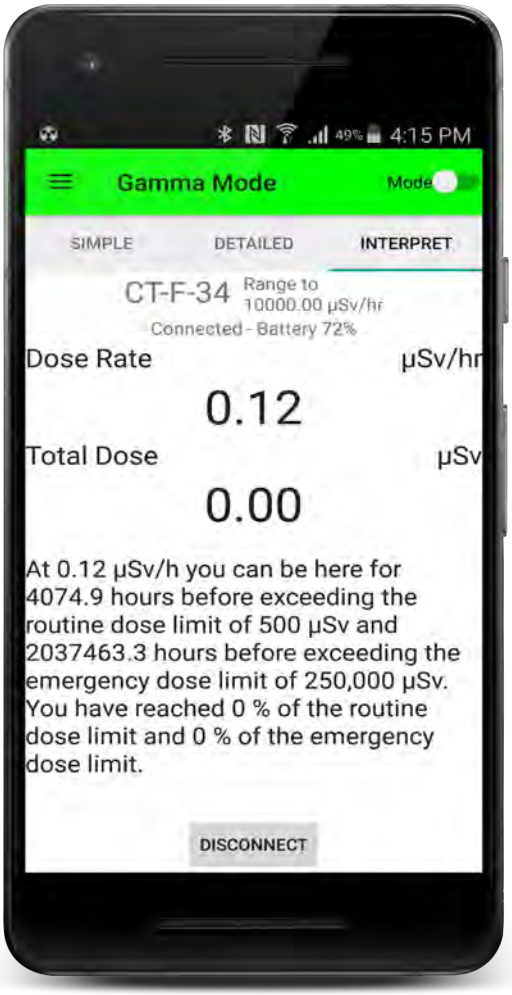
The GammaGuard System

The CT008-F, like many of our other radiation detection instruments, connects to our smartphone application, GammaGuard.

The GammaGuard App:

- Provides a large, easy to read display.
- Has the ability to interpret readings for non-technical users.
- Uses one consistent user interface across all our hand-held detectors, so that there is only one system to learn.
- Can automatically save data to a file and upload data to a central database, facilitating coordinated incident response.
- Alerts the user to elevated radiation levels, even when you are performing other tasks as long as GammaGuard is running in the background.
- Displays the radiation level remotely when the detector is up to 40 m away.
- Changes background from green, to yellow, to red, to indicate low, elevated, and high levels of radiation.





For more information
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