



Innovator In Spectroscopy Equipment

GC2217



- Hp(0.07)
- Hp(10)
- H*(10)



GAMMA COUNTER MODEL GC2217 (1" x 2.5" & 2" x 3")

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CATALOG



DOSIMETERS



FREE DOWNLOAD

GAMMA COUNTER

MODEL GC2217 (1" × 2.5" & 2" × 3")

Features

- Single output
- Adjustable gain
- Pulse mode biasing
- Extreme sensitivity to gamma rays
- High density, high γ -ray stopping power
- Fast response for high frame rate applications
- Rugged integrated CsI(Tl) detector in tough aluminum housing available in 1" × 2.5" and 2" × 3" sizes
- Ready for field operation
- Splash resistant design
- Wide temperature range
- Continuous operation under severe environmental condition
- Special rugged design to withstand typical field usage
- Durable, Versatile

High γ -ray stopping power Pulse mode biasing



Description

The GC2217 from Control Farayand Pasargad (CFP) is a great general purpose gamma counter. This scintillation counter enables detection of gamma and x-ray radiation, intensity measurements, e.g. in absorption experiments, and registration of calibrated energy spectra for energy determinations. It has two versions, In the first version, crystal is a 1" × 2.5" CsI(Tl) and in the second version, crystal is 2" × 3" CsI(Tl). Crystal is coupled to a PMT with integral voltage divider, the whole package is housed in a spun aluminum housing and neatly capped off with an aluminum cap, silver plated

BNC connector and adjustable resistor rotating wheel. Surface finished in a hard wearing made of electrostatically applied epoxy black coating.

Photomultiplier tube (PMT) modules combine a PMT with voltage divider. A variety of PMT modules are available which differ in output signal format (current or voltage). Suitable for low gamma level detection applications, the photomultiplier tube (PMT) provides extremely high sensitivity and ultrafast response.



Specifications

UNIT:GC2217		
Type	1" × 2.5"	2" × 3"
Detector	CsI(Tl)	
Input(s)		
Adj	HV bias (+450 to +750V) DC, SHV connector	
Output(s)		
BNC	Energy output, BNC connector	
Control(s)		
Adj	High voltage bias adjustable +450 to +750V DC, SHV connector	
Indicator(s)		
Indicator	No indicator	
Performance		
Resolution FWHM @ 662 keV	< 18% best for counting Not good for spectroscopy	< 18% best for counting Not good for spectroscopy
Energy rang	30 – 5000keV	
Detector		
Gamma detector	CsI(Tl)	
PMT	10-stage PMTs	
Measurement/Spectrum		
High voltage	450 to 750V ,Positive manual adjustment	
Energy calibration	Just pulse mode	

Application

- Geophysics
- Security control
- Nuclear medicine
- Industrial gauging
- Non-destructive testing (NDT)
- General purpose gamma counting
- Gamma gate
- Health physics
- Teaching and research
- Customs and border patrols
- Environmental and area monitoring
- Construction of spectrometric systems for laboratory and industrial purposes

Electrical, Mechanical and Environmental

Unit:GC2217		
Version	1" x 2.5"	2" x 3"
Electrical		
Power required	HV bias +450 +750V DC	
Physical		
Housing dimensions (\emptyset x H)	50mm x 220mm	58mm x 265mm
Weight	0.850kg	1.250kg
Mechanical		
Environmental		
Storage temperature	-20°C to 50°C	
Operating temperature	5°C to 50°C	
Relative Humidity	10 to 70%	

Software

The device doesn't have any software

Detector Type CsI(Tl)







Detector Type CsI(Tl)







Ordering info

GC2217-1" × 2.5" Standard package includes






Part #	Image	Description
GC2217-1" × 2.5" main		Integrated 1" × 2.5" CsI(Tl) detector
ACCE2217001		CD user guide (1 Pack)
ACCE2217003		Guarantee (one year)
ACCE2217007		Protective Rugged Hard case

GC2217-2" × 3" Standard package includes

Part #	Image	Description
GC2217-2" × 3" main		Integrated 2" × 3" CsI(Tl) detector
ACCE2217001		CD user guide (1 Pack)
ACCE2217003		Guarantee (one year)
ACCE2217007		Protective Rugged Hard case

* =we stand behind our products. We guarantee your satisfaction in the quality of our instruments by providing a complete one-year warranty covering any defect of workmanship, material, and/or design. If our products do not perform, we will provide complete repair and/or replacement. for guaranty conditions, please refer to manual device (GS2217 - Manual)

Optional accessories and services

Part #	Image	Description
ACCE2217005		Installation
ACCE2217006		Training
ACCE2217006		Re-calibration services
ACCE2217002		Device Box with Foam Inserted`
ACCE2217010		RG58 , 50Ω cable with two BNC male plugs

** = The proper maintenance & calibration of your instruments is critical to ensure proper performance & accuracy. for Re-calibration (Interval) services, please call with CFP company (021- 46045383)

Matters need attention:

1. Each detector is thoroughly tested before shipping and comes with a 12 months guarantee, we are responsible for the repair, replacement within the warranty period, and provide technical support. Please don't disassemble the detector by yourself, in case of any questions please contact us.
2. The packaged product allows to transport by cars, trains, airplanes, ships and other transportation vehicles, transportation should prevent severe shock, severe vibration, rain and so on.
3. Scintillation detector should be stored in a cool, dry environment.
4. Please pay attention to the input voltage value and polarity, improper input voltage will lead to the detector does not work and even damage.
5. The cable should be correctly connected to the connector, incorrect connection may lead to detector damage.