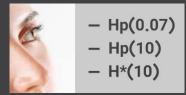


GC2217







GAMMA COUNTER

MODEL GC2217

(1" × 2.5" & 2" × 3")















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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 Csl(Tl) detector in tough aluminum housing available in 1" x 2.5" and 2" x 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









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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" \times 2.5" CsI(TI) and in the second version, crystal is 2" \times 3" CsI(TI). 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				
Туре	1" × 2.5"	2" × 3"		
Detector	CsI(TI)			
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	< 18% best for counting	< 18% best for counting		
FWHM @ 662 keV	Not good for spectroscopy	Not good for spectroscopy		
Energy rang	30 – 5000keV			
Detector				
Gamma detector	CsI(TI)			
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

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

Software

The device doesn't have any software



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Ordering info

GC2217-1" × 2.5" Standard package includes

Part #	Image	Description
GC2217-1" × 2.5" main	× =	Integrated 1" × 2.5" CsI(TI) detector
ACCE2217001	And and the second seco	CD user guide (1 Pack)
ACCE2217003	GUARANTEE 1 YEAR	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(TI) detector
ACCE2217001	Security Sec	CD user guide (1 Pack)
ACCE2217003	GUARANTEE 1 YEAR	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)

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Optional accessories and services

Part #	Image	Description
ACCE2217005	INSTALLATION	Installation
ACCE2217006	TRAINING	Training
ACCE2217006	CALIBRATION	Re-calibration services
ACCE2217002	CCO	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.