

Radiation measuring engine of gamma-probe

M001-01/-02/-03



Product outline

This equipment has a scintillator, optical sensor and signal processing circuit. With the connection to the PC, it can send receive control signals and output data. We offer a device driver and analysis software. High performance scintillator and high sensitive optical sensor enables highly precise measurement. We can provide flexible service in accordance to the customers' requests and also take your orders for OEM. Application.

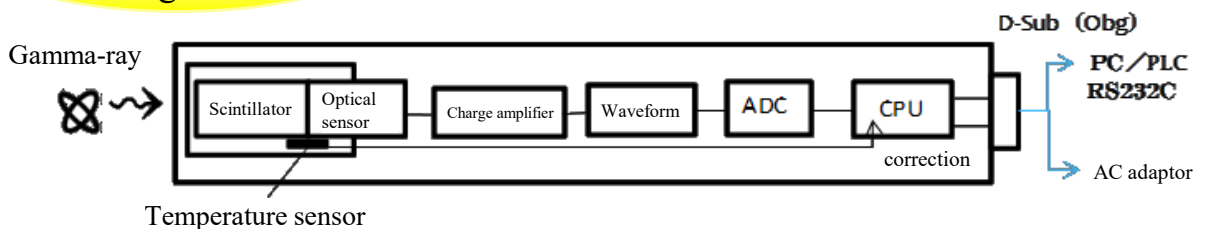
Features

- High sensitivity, low noise, wide measurement range (detect the gamma-ray of 20Kev~3Mev)
- Able to choose an engine from different kind of scintillators, PMT.
- Scintillator, PMP and reading circuit are into one package.
- Probe's temperature characteristics have been automatically corrected mechanism by built-in temperature sensor.

Application

- Measuring of radiation
- Investigations for agricultural products and soil pollution.
- Security
- Nuclear medicine
- Industrial measurement

System Configuration



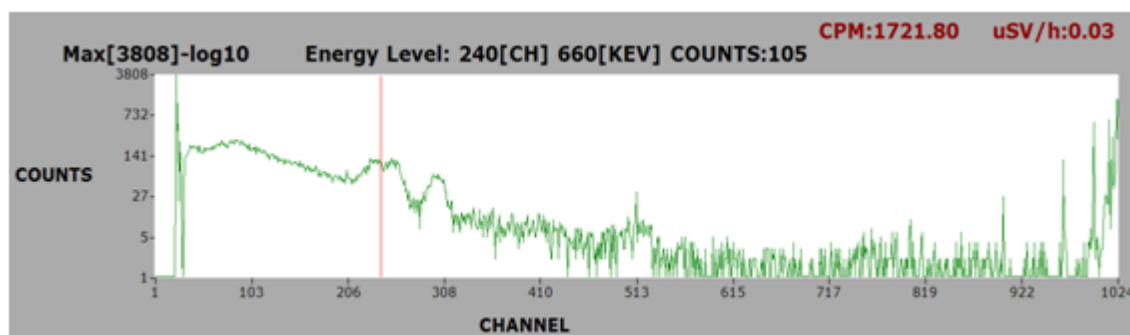
Specifications

No.	M-001-01	M-001-02	M001-03	remarks
Scintillator	CsI(Tl)	NaI(Tl)	NaI(Tl)	We provide a system accordance with the purpose
Optical sensor	PMT			
Detector size	16 x 16Φ8 (mm)	2inch	3inch	
Sensitivity	8,000CPM/μSv/H	80,000CPM/μSv/H	240,000CPM/μSv/H	
Measurement range	0.001 ~ 50 μSv/H			
Energy resolution	¹³⁷ Cs 7%~12% (depend on kinds of detectors)			
Directional Characteristic	Within ± 10 %			
Energy range	20keV ~ 2MeV	20keV ~ 3MeV		
Temperature Characteristic	-0.5% / °C (Typical)			
Temperature Correction	Not built-in	Built-in		Automatic correction
Display	Image displayed in the PC by the GP software			Csv output
Sampling time	20μS ~			
Control signal	Measurement condition command			
Data output	Numeric data and energy distribution			
Cable, Connector	RS-232C (USB) and AC adaptor branch cable			3m
External power supply	6.5~9 V			
Dimensions	40 x 40 x 120mm	Φ76 x 236mm	φ94 x 274mm	Please call us for allowances
Weight	200g	2.0kg	2.4kg	
Operating temperature range	0°C ~ 40°C ※			
Storage temperature range	- 10°C ~ 50°C ※			

※Avoid rapid temperature change. It may cause deteriorating of its performance.

PHD Distribution

Example : Radioactive cesium containing contaminated green tea leaf



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