

Model GSpec SA - Gamma Spectroscopy System

(1K MCA with High Voltage Supply & Spectroscopy Amplifier)



GSpec SA is a 1K Multichannel Analyzer with HV Supply and Spectroscopy Amplifier. It is a mains operated instrument for NaI(Tl) detector based spectroscopy.

GSpec SA along with NaI(Tl) detector of Customer's choice and Preamplifier (NETS-0M) form a complete Spectroscopy System. The whole setup has a resolution of around 7%. It is suitable for applications where low resolution of nuclides is acceptable.

GSpec SA is ideally suited for Nuclear Spectroscopy experiments carried out at Universities, Environmental Survey Labs and Health Physics Units of Nuclear Power Plants and Chemical Control Labs.

GSpec contains 1024 channel 48 MHz Wilkinson ADC with Silab Microcontroller for USB interface with PC for spectrum acquisition and data processing.

Data acquisition software is loaded on PC / Laptop and provides spectrum acquisition and display, spectrum analysis software for energy calibration, ROI selection, area calculation, peak search, peak information, spectrum smoothing and spectrum data storage on PC hard disk. High voltage supply necessary to operate scintillation detector is software programmable from 0 to 1200 volts in 256 steps. Spectroscopy amplifier gain is settable through PC

**High Voltage Power Supply :**

0 to +1200 V dc, 0.5 mA
256 steps software programmable
Ripple < 30 mv

Spectroscopy Amplifier :

1 μ sec semi Gaussian shaping with internal PZ adjustment
Gain Setting settable through PC
Output : 0 to 6 V unipolar semi Gaussian, connected internally to ADC input

ADC :

1K Channel Willkinson type
48 MHz clock frequency
Conversion time - 20 μ sec for FS input
ADC control through Silab F340 micro controller via USB interface
USB cable length upto 5 meters
Differential Non Linearity less than 2 %

Power Supply :

Mains Operated 230V AC / 50 Hz

Data Acquisition and Processing Software :

Acquisition and display of Gamma Spectrum
Energy Calibration
ROI selection, Area Calculation,
Peak search and peak information
Spectrum Stabilization & Smoothing of spectrum
Data Storage on PC hard disk

Mechanical :

Dimensions : 225 mm x 200 mm x 70 mm Comptec Box
Weight : Approximately 500 gms

Optional :

Nal(Tl) Detector
Lead Shield suitable for detector

Due to continuous R&D, specifications are likely to change without notice

For further details contact :

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