Model 4612
12 Channel Benchtop Counter
Radiation Detection for a Safer World

Features

- 12 Channels
- PC Program Control & Logging
- Wide Range High Voltage
- Single Channel Analysis
- User-Adjustable Parameters

Part Number 48-3237

Introduction

The Model 4612 is a 12-detector SCA (single channel analyzer) with PC control of all necessary operating parameters. Up to 12 detectors may be connected to the instrument, each with independent high voltage, threshold or sensitivity, and window settings. This equipment is supplied with IBM-compatible application software that enables setting up each channel, running counts, and storing the data.

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Specifications

SUGGESTED DETECTORS: GM, proportional, scintillation
CONNECTOR: series "BNC" (others available)
HIGH VOLTAGE: adjustable from 0–1500 volts (optional 0–2500 volts)
THRESHOLD: adjustable from 5 mV–3300 mV
WINDOW: adjustable from 5 mV–3300 mV (can be enabled or disabled)
AMPLIFIER GAIN: adjustable from 1–15 V/V
POWER: 7.5–36 Vdc at 3 W maximum
TEMPERATURE RANGE: -15 to 50 °C (5 to 122 °F), may be certified to operate from -40 to 65 °C (-40 to 150 °F)
SIZE: 10.9 x 29.2 x 10.7 cm (4.3 x 11.5 x 4.2 in.) (H x W x L)
WEIGHT: 1.2 kg (2.7 lb)

SOFTWARE: Provided computer software package allows for setting and changing of all parameters including HV, Threshold, Window, Scaler Count Time, and Output Time. There is also an HV Plateau Routine that allows for detector plateauing of any or all channels of the instrument. Other features include data logging capabilities and scaler operations in slave or recycle modes. The Model 4612 is a 12-detector Single Channel Analyzer (SCA) with PC control for all necessary operating parameters. Up to 12 detectors may be connected to the instrument; each with independent high voltage, threshold, and window settings. Parameters are loaded from a built-in flash memory during the power-up sequence. These parameters include high voltage, upper-level discriminator, lower-level discriminator, count time, count time range,output time, recycle mode, or slave mode.

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